

## ALLNET Switch smart managed Layer2 10 Port • PoE Budget 140W • 8x PoE at • 2x SFP • 19" • Lüfterlos • ALL-SG8310v2PM

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### EAN CODE



## ALLNET Switch smart managed Layer2 10 Port • PoE Budget 140W • 8x PoE at • 2x SFP • 19" • Lüfterlos • ALL-SG8310v2PM

### Highlights:

- 8-Port 10/100/1000Mbit/s mit voller PoE Unterstützung
- 2x SFP Slots für optionale MiniGBICS
- PoE Leistung 4x à 30 Watt (IEEE802.3at oder 8x IEEE802.3af)
- LÜFTERLOSES DESIGN mit internem Netzteil
- Jumbo Frames und IGMP Snooping Support
- Link Aggregation und Rapid Spanning Tree
- IEEE802.1q VLAN Tagging und 802.1p Priority Queues
- PoE-Budget 140 W

Der ALL-SG8310v2PM ist ein 8-Port 10/100/1000Mbit/s Switch mit PoE Support auf allen Ports, der perfekt für die Segmentierung größerer Netzwerke geeignet ist. Er ist eine hervorragende Wahl, um Ihr Netzwerk mit mehr Leistung und Effizienz zu versorgen.

### IEEE 802.3af&at Power over Ethernet (PoE)

Der ALL-SG8310v2PM unterstützt auf 4 Ports Ports den PoE Standard IEEE 802.3at mit bis zu 30 Watt Leistung pro Port für die angeschlossenen PoE Endgeräte oder auf 8 Ports die volle Leistung nach IEEE802.3af mit bis zu 15,4W. Das maximale PoE Budget beträgt 140W. Dabei nutzt der ALL-SG8310v2PM die bestehende LAN-Verkabelung für die Spannungsversorgung. Dies erleichtert Installation von PoE-Endgeräten wie WLAN Access Point, IP Kameras, VoIP Telefonen und vieles mehr, da bei der Platzierung keinerlei Rücksicht auf Stromsteckdosen genommen werden muss. Die PoE ON/OFF Funktion erlaubt dem Administrator den



komfortablen Reset der Endgeräte aus der Ferne, durch Abschalten der PoE-Spannungsversorgung für jeden einzelnen Port.

#### **High-Speed Networking/Jumbo Frames Support**

Der ALL-SG8310v2PM bietet eine hervorragende Lösung für die Erweiterung Ihres Gigabit-Netzwerks. Mit Gigabit-Geschwindigkeit bietet dieses Produkt eine hohe Flexibilität und eine hohe Bandbreite für die Konnektivität zu Servern, Workstations und anderen angeschlossenen Geräten. Darüber hinaus unterstützt es auch 9,6K Jumbo Frames zur besseren Netzauslastung, was die Übertragung großer Dateien stark verbessert.

#### **Umfangreiche Verwaltungs-/Managementfunktionen**

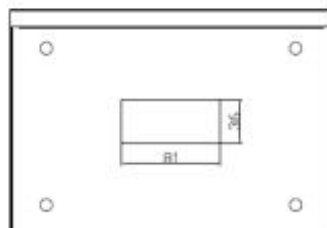
Moderne Anwendungen für Videoüberwachung mit IP Kameras und Voice over IP ersetzen zunehmend klassische analoge Technologien. Hierbei steigen auch die Anforderungen an die Netzwerk Infrastruktur. Der ALLNET ALL-SG8310v2PM ist mit vielen Verwaltungs- und Sicherheitsfunktionen für alle modernen Kommunikationsszenarien gerüstet. IGMP Snooping, Tagged VLAN, Quality of Service, Port Trunking, Flow Control, Storm Control, Link Aggregation, IEEE802.1x, SNMP v1/ v2c und Spanning Tree sind nur ein kleiner Auszug aus den umfangreichen Funktionsportfolio des ALL-SG8310v2PM. Mehr Details siehe Technische Details.

## Technical Details:

Items

Model No.

Key Components



**Specifications**

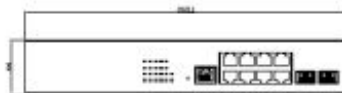
ALL-SG8310v2PM

RTL8382M

Flash IC:16MB

DDR: 1Gb

I/O ports



IP808AR PSE controller

8x GbE ports, RJ45



2 x SFP Giga ports



Reset Button: reset to default setting, re-start system

Console port by RTJ45 Type

|                          |   |
|--------------------------|---|
| <p><b>PoE ports</b></p>  | <p>Port# 1~ 8</p> <p>IEEE802.3at, IEEE802.3af</p>   |
| <p><b>LED Define</b></p> | <p>PWR/SYS: Green LED</p> <ul style="list-style-type: none"> <li>• Off: power off or fail</li> <li>• On: power on</li> <li>• Blinking: system booting up</li> </ul> <p>PoE Alert: Green LED</p> <ul style="list-style-type: none"> <li>• Off: No over PoE Max power Alert</li> <li>• On: Over PoE Max power Alert</li> </ul> <p>Port LED:</p> <p>Link/ACT:</p> <ul style="list-style-type: none"> <li>• Off: port disconnected or link fail</li> <li>• Green on: 10/100/1000Mbps connected</li> <li>• Blinking: sending or receiving data</li> </ul> <p>PoE:</p> <ul style="list-style-type: none"> <li>• Off: PoE power output off</li> <li>• Green on: PoE power output on</li> </ul> <p>SFP:</p> <ul style="list-style-type: none"> <li>- Off: disconnected or fail</li> <li>- Green: 100/1000Mbps connected</li> <li>- Blinking: data transmitting</li> </ul> |
| <p><b>HW feature</b></p> | <p>IEEE802.3 10BASE-T</p> <p>IEEE802.3u 100BASE-TX</p> <p>IEEE802.3ab 1000BASE-T</p> <p>IEEE802.3az EEE</p> <p>IEEE802.3at, IEEE802.3af</p> <p>MAC address Table: 8K</p> <p>Packet buffer size: 4.1M</p>  |

|                                  | Jumbo Frame: 9K bytes  |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
|----------------------------------|--|--|--|--|--|---|---------|-------|----------------|---|----------|------|---------------|---|----------|------|---------------|---|----------|-------|----------------|---|----------|-----|-----------------|
| <b>Console</b>                   | Support Cisco-like CLI command   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>Security</b>                  | DT Security circuit.   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>PoE power pin-out</b>         | Alternative A (Pin 1,2/3,6)  |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>PoE Output power capacity</b> | <p>Maximum output :30W per each port</p> <ol style="list-style-type: none"> <li>1. Compliant with IEEE802.3af/at standard, Following IEEE802.3at/at to support PoE or PoE+</li> <li>2. Automatically discover the connection of PD device and immediately sends power to it</li> <li>3. Auto disable port if the port current is over 700mA or short happens</li> <li>4. Priority default setting is lower port NO. has high priority</li> <li>5. The maximum power used by power devices is defined by the following classification. When Port works in Auto Mode, the output port power limit will be associated with PD classification Value.</li> </ol> <table border="1"> <thead> <tr> <th>Class</th> <th>Usage</th> <th>Minimum Power Levels Output at the PSE</th> <th>Maximum Power Levels at the Powered Device</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Default</td> <td>15.4W</td> <td>0.44 to 12.95W</td> </tr> <tr> <td>1</td> <td>Optional</td> <td>4.0W</td> <td>0.44 to 3.84W</td> </tr> <tr> <td>2</td> <td>Optional</td> <td>7.0W</td> <td>3.84 to 6.49W</td> </tr> <tr> <td>3</td> <td>Optional</td> <td>15.4W</td> <td>6.49 to 12.95W</td> </tr> <tr> <td>4</td> <td>Optional</td> <td>30W</td> <td>12.95W to 25.5W</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>1. Follow the standard PSE pin-out standard of Alternative A (MAD-X) which is sending out power over number 1,2,3,6 pins of 8 wires of Ethernet CAT5 UTP cable</li> </ol> | Class                                  | Usage                                      | Minimum Power Levels Output at the PSE | Maximum Power Levels at the Powered Device | 0 | Default | 15.4W | 0.44 to 12.95W | 1 | Optional | 4.0W | 0.44 to 3.84W | 2 | Optional | 7.0W | 3.84 to 6.49W | 3 | Optional | 15.4W | 6.49 to 12.95W | 4 | Optional | 30W | 12.95W to 25.5W |
| Class                            | Usage  | Minimum Power Levels Output at the PSE | Maximum Power Levels at the Powered Device |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| 0                                | Default  | 15.4W                                  | 0.44 to 12.95W                             |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| 1                                | Optional   | 4.0W                                   | 0.44 to 3.84W                              |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| 2                                | Optional   | 7.0W                                   | 3.84 to 6.49W                              |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| 3                                | Optional   | 15.4W                                  | 6.49 to 12.95W                             |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| 4                                | Optional   | 30W                                    | 12.95W to 25.5W                            |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>Power Input</b>               | <p>Internal power supply</p> <p>Input: 100-240V AC</p> <p>Output: 180W</p>   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>PoE Power Budget</b>          | 140W   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>Reset button</b>              | Support reset to default configuration   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>Dimension</b>                 | 265(W) x 183(D) x 44(H) mm   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>FAN Design</b>                | Fan-less   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |
| <b>Temperature</b>               | Operating: 0 ~ 40?   |  |  |  |  |   |         |       |                |   |          |      |               |   |          |      |               |   |          |       |                |   |          |     |                 |



|                 |   |
|-----------------|---|
|                 | Storage : -40 ~ 70?   |
| <b>Humidity</b> | Operating: 10% ~ 90% RH (non-condensing)<br>Storage: 5% ~ 90% RH (non-condensing) |

### Software Features

|                |                    |                                       |   |  |
|----------------|--------------------|---------------------------------------|---|--|
| <b>Status</b>  | System Information |                                       |   |  |
|                | Logging Message    |                                       |   |  |
|                | Port               | Statistics                            |   |  |
|                |                    | Error Disabled                        |   |  |
|                |                    | Bandwidth Utilization                 |   |  |
|                | Link Aggregation   |                                       |   |  |
|                | MAC Address Table  | 8K                                    |   |  |
| <b>Network</b> | IP Address         | Static / Dynamic                      |   |  |
|                | System Time        | SNTP / From Computer / Manual Time    |   |  |
| <b>Port</b>    | Port Setting       | State / Speed / Duplex / Flow Control |   |  |
|                | Error Disabled     | Recovery Interval                     | ACL / ARP Rate Limit / BPDU Guard / Broadcast Flood / DHCP Rate Limit / Port Security / Self Loop / Unicast Flood / Unknown Multicast Flood |  |
|                | Link Aggregation   | Group                                 |   |  |
|                |                    | Port Setting                          | State / Speed / Flow Control  |  |
|                |                    | LACP                                  |   |  |
|                | EEE                |                                       |   |  |
| Jumbo Frame    | 9K Byte            |                                       |   |  |
| <b>PoE</b>     | Global Setting     | Schedule Status                       |   |  |
|                | Priority Setting   |                                       |   |  |
|                | Power Limit        |                                       |   |  |
|                | Power Show         |                                       |   |  |
| <b>VLAN</b>    | VLAN               | Create VLAN                           |   |  |
|                |                    | VLAN Configuration                    |   |  |
|                |                    | Membership                            |   |  |
|                |                    | Port Setting                          |   |  |

|                      |                          |  |   |
|----------------------|--------------------------|--|---|
|                      | Voice VLAN               | Property   |   |
|                      |                          | Voice OUI  |   |
|                      | Protocol VLAN            | Protocol Group                                     |   |
|                      |                          | Group Binding                                      |   |
|                      | MAC VLAN                 | MAC Group  |   |
|                      |                          | Group Binding                                      |   |
|                      | Surveillance VLAN        | Property   |   |
|                      |                          | Surveillance OUI                                   |   |
|                      | GVRP                     | Property   |   |
|                      |                          | Membership   |   |
|                      |                          | Statistics   |   |
|                      | <b>MAC Address Table</b> | Dynamic Address                                    | Aging Time  |
| Static Address       |                          |  |   |
| Filtering Address    |                          |  |   |
| <b>Spanning Tree</b> | Property                 | State / Operation Mode / Path Cost / BPDU Handling | Operation Mode : STP/RSTP/MSTP                      |
|                      | Port Setting             |  |   |
|                      | MST Instance             |  |   |
|                      | MST Port Setting         |  |   |
|                      | Statistics               |  |   |
| <b>Discovery</b>     | LLDP                     | Property   |   |
|                      |                          | Port Setting                                       |   |
|                      |                          | MED Network Policy                                 |   |
|                      |                          | MED Port Setting                                   |   |
|                      |                          | Packet View  |   |
|                      |                          | Local Information                                  |   |
|                      |                          | Neighbor   |   |
|                      |                          | Statistics   |   |
| <b>Multicast</b>     | General                  | Property   | Unknown Multicast Action / Multicast Forward Method |
|                      |                          | Group Address                                      |   |
|                      |                          | Router Port  |   |
|                      |                          | Forward All Table                                  |   |
|                      |                          | Throttling   |   |
|                      |                          | Filtering Profile                                  |   |
|                      |                          |  |   |

|                 |                        |  |  |
|-----------------|------------------------|--|--|
|                 |                        | Filtering Binding  |  |
|                 | IGMP Snooping          | Property   | State / Version / Report Suppression                         |
|                 |                        | Querier  |  |
|                 |                        | Statistics   |  |
|                 | MLD Snooping           | Property   | State / Version / Report Suppression                         |
|                 |                        | Statistics   |  |
|                 | MVR                    | Property   | State / VLAN / Mode / Group Start / Group Count / Query Time |
|                 |                        | Port Setting   |  |
|                 |                        | Group Address  |  |
| <b>Security</b> | RADIUS                 |  |  |
|                 | TACACS+                |  |  |
|                 | AAA                    | Method List  |  |
|                 |                        | Login Authentication   | Console / Telnet / SSH / HTTP / HTTPS                        |
|                 | Management Access      | Management VLAN  |  |
|                 |                        | Management Service   | Telnet / SSH / HTTP / HTTPS / SNMP / Session Timeout         |
|                 |                        | Management ACL   |  |
|                 |                        | Management ACE   |  |
|                 | Authentication Manager | Property   |  |
|                 |                        | Port Setting   |  |
|                 |                        | <b>MAC-Based Local Account</b>   |  |
|                 |                        | <b>WEB-Based Local Account</b>   |  |
|                 |                        | Sessions   |  |
|                 | Port Security          |  |  |
| Protected Port  |                        |  |  |
| Storm Control   |                        | State / Broadcast / Unknown Multicast / Unknown Unicast / Action (Drop / Shutdown) |  |



|                    |                        |                       |                                       |
|--------------------|------------------------|-----------------------|---------------------------------------|
|                    | DoS                    | Property              |                                       |
|                    |                        | Port Setting          |                                       |
|                    | Dynamic ARP Inspection | Property              |                                       |
|                    |                        | Statistics            |                                       |
|                    | DHCP Snooping          | Property              |                                       |
|                    |                        | Statistics            |                                       |
|                    |                        | Option82 Property     |                                       |
|                    |                        | Option82 Circuit ID   |                                       |
|                    | IP Source Guard        | Port Setting          |                                       |
|                    |                        | IMPV Binding          |                                       |
| Save Database      |                        |                       |                                       |
| <b>ACL</b>         | MAC ACL                |                       |                                       |
|                    | MAC ACE                |                       |                                       |
|                    | IPv4 ACL               |                       |                                       |
|                    | IPv4 ACE               |                       |                                       |
|                    | IPv6 ACL               |                       |                                       |
|                    | IPv6 ACE               |                       |                                       |
|                    | ACL Binding            |                       |                                       |
| <b>QoS</b>         | General                | Property              | CoS / DSCP / CoS-DSCP / IP Precedence |
|                    |                        | Queue Scheduling      | Strict Priority / WRR                 |
|                    |                        | CoS Mapping           |                                       |
|                    |                        | DSCP Mapping          |                                       |
|                    |                        | IP Precedence Mapping |                                       |
|                    | Rate Limit             | Ingress / Egress Port |                                       |
| Egress Queue       |                        |                       |                                       |
| <b>Diagnostics</b> | Logging                | Property              | Console / RAM / Flash                 |
|                    |                        | Remote Server         |                                       |
|                    | Mirroring              |                       |                                       |
|                    | Ping                   |                       |                                       |
|                    | Traceroute             |                       |                                       |
|                    | Copper Test            |                       |                                       |
|                    | Fiber Module           |                       |                                       |
|                    | UDLD                   | Property              | Message Time                          |
| Neighbor           |                        |                       |                                       |
| <b>Management</b>  | User Account           |                       |                                       |

|             |               |                    |   |
|-------------|---------------|--------------------|---|
|             | Firmware      | Upgrade / Backup   | Action (Upgrade / Backup) / Method (TFTP / HTTP)                |
|             |               | Active Image       | Active Image / Backup Image                                     |
|             | Configuration | Upgrade / Backup   | Action (Upgrade / Backup) / Method (TFTP / HTTP)                |
|             |               | Save Configuration | Source File / Destination File, Restore Factory Default         |
|             | SNMP          | View               |   |
|             |               | Group              |   |
|             |               | Community          |   |
|             |               | User               |   |
|             |               | Engine ID          |   |
|             |               | Trap Event         | Authentication Failure / Link UP_Down / Cold Start / Warm Start |
|             | Notification  |                    |   |
| <b>RMON</b> | Statistics    |                    |   |
|             | History       |                    |   |
|             | Event         |                    |   |
|             | Alarm         |                    |   |

## Merkmale

| Merkmal               | Wert                   |
|-----------------------|------------------------|
| Anzahl Ports PoE/LAN: | 8/0                    |
| Belüftung Switch:     | Lüfterlos              |
| Einsatzort Switch:    | 19"                    |
| Management:           | smart managed (WebGui) |
| PoE Budget:           | <200 Watt              |
| PoE Port Leistung:    | 30W at                 |
| SFP Geschwindigkeit:  | SFP 1GBit              |
| Gewicht:              | 2.3 Kg                 |
| Garantie:             | 24.00 Monate           |

## Zubehör

| Art.-Nr. | Name   |
|----------|--|
| 27947    | ALLNET Switch Modul ALL4750 SFP(Mini-GBIC), 1000Mbit, SX/LC,   |
| 59426    | ALLNET Switch Modul ALL4751 SFP(Mini-GBIC), 1000Mbit, LX/LC, 10Km "SINGLE-MODE"                        |
| 114334   | ALLNET Switch Modul ALL4752 SFP(Mini-GBIC), 1000Mbit, LX/LC, 20KM,                                     |
| 59391    | ALLNET Switch Modul ALL4753 SFP(Mini-GBIC), 1000Mbit, EX/LC, 40KM                                      |
| 59393    | ALLNET Switch Modul ALL4755 SFP(Mini-GBIC), 1000Mbit, ZX/LC, 80KM                                      |
| 175246   | ALLNET PoE Injektor Gigabit / PoE & PoE+ (15,4W/30W)/ 2.5Gbit/ Metallgehäuse / "ALL0489v4"             |
| 99315    | ALLNET Switch unmanaged 8 Port Gigabit 63W / 4x PoE+ / 4x LAN / Lüfterlos /19" / "ALL8804PoE+"         |
| 93392    | ALLNET Switch unmanaged 8 Port Gigabit 150W / 8x PoE+ / Lüfterlos / 19" / "ALL8808POE"                 |
| 193997   | ALLNET Switch full managed 8 Port Gigabit 130W / 8x PoE+ / 2x SFP / Lüfterlos / 19" / "ALL-SG8610PM"   |
| 75932    | Patchkabel RJ45 FTP(F/UTP) 0,25m grau, CAT5e, Synergy 21,  |
| 194025   | ALLNET Switch full managed 24 Port Gigabit 390W / 24x PoE+ / 4x SFP / Lüfterlos / 19" / "ALL-SG8626PM" |
| 186548   | ALLNET PoE Injektor Gigabit PoE & PoE+ (15,4W/30W) / Kunststoffgehäuse / "ALL0488v6"                   |
| 175246   | ALLNET PoE Injektor Gigabit / PoE & PoE+ (15,4W/30W)/ 2.5Gbit/ Metallgehäuse / "ALL0489v4"             |
| 99305    | ALLNET TP Cat 6 Überspannungs-/Blitzschutz Surge Protector ALL95100 Indoor                             |
| 194025   | ALLNET Switch full managed 24 Port Gigabit 390W / 24x PoE+ / 4x SFP / Lüfterlos / 19" / "ALL-SG8626PM" |
| 93392    | ALLNET Switch unmanaged 8 Port Gigabit 150W / 8x PoE+ / Lüfterlos / 19" / "ALL8808POE"                 |
| 193997   | ALLNET Switch full managed 8 Port Gigabit 130W / 8x PoE+ / 2x SFP / Lüfterlos / 19" / "ALL-SG8610PM"   |
| 27947    | ALLNET Switch Modul ALL4750 SFP(Mini-GBIC), 1000Mbit, SX/LC,   |
| 59391    | ALLNET Switch Modul ALL4753 SFP(Mini-GBIC), 1000Mbit, EX/LC, 40KM                                      |
| 59393    | ALLNET Switch Modul ALL4755 SFP(Mini-GBIC), 1000Mbit, ZX/LC, 80KM                                      |
| 114334   | ALLNET Switch Modul ALL4752 SFP(Mini-GBIC), 1000Mbit, LX/LC, 20KM,                                     |
| 140675   | ALLNET Switch Modul ALL4765 SFP(Mini-GBIC), 1000Mbit, RJ45(TP),  |
| 140955   | TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,                                     |
| 141255   | Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 1m,Black IEC Lock              |

| Art.-Nr. | Name   |
|----------|--|
| 141254   | Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 2m,Black IEC Lock            |
| 141256   | Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 3m,Black IEC Lock            |
| 188424   | CyberPower USV, OR-Serie, 600VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte, |
| 188433   | CyberPower USV, OR-Serie, 650VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, CEE7-Schutzkontakt, |
| 188435   | CyberPower USV, OR-Serie, 1000VA/600W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte |
| 188439   | CyberPower USV, OR-Serie, 1500VA/900W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte |

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