SCALANCE M wireless router

Industrial Remote Communication
The SCALANCE M portfolio from Siemens is the low-cost solution to the construction of corporate wireless networks, because it uses the existing public mobile radio networks available worldwide. It is also used if no other transmission medium (e.g. dedicated line/telephone network) is available.

Increasing bandwidths, higher speed and performance, as well as decreasing costs open up new opportunities in the public and industrial communication environment. The network components of SCALANCE M can be used universally in the fields of telecontrol, teleservice and any other application for industrial remote communication. Thanks to the integrated encryption and access protection mechanisms, the devices make a crucial contribution to security in data communication.

<table>
<thead>
<tr>
<th></th>
<th>M875</th>
<th>M874-3 for UMTS</th>
<th>M874-2 for GPRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLFB</td>
<td>6GK5875-0AA10-1AA2</td>
<td>6GK5874-3AA00-2AA2</td>
<td>6GK5874-2AA00-2AA2</td>
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<tr>
<td>Standard</td>
<td>3G</td>
<td>3G</td>
<td>2 ... 2.5G</td>
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<tr>
<td>Frequency bands</td>
<td>GSM 850/900/1800/1900 MHz, UMTS 800/850/1700/1900/2100 MHz</td>
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<tr>
<td>DI/DO</td>
<td>0/0</td>
<td>1/1</td>
<td>1/1</td>
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<tr>
<td>Antenna connectors</td>
<td>2x SMA (Rx Diversity)</td>
<td>1x SMA</td>
<td>1x SMA</td>
</tr>
<tr>
<td>LAN interfaces</td>
<td>2x RJ45</td>
<td>2x RJ45</td>
<td>2x RJ45</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 °C ... +75 °C</td>
<td>-20 °C ... +60 °C</td>
<td>-20 °C ... +60 °C</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP20</td>
<td>IP20</td>
<td>IP20</td>
</tr>
<tr>
<td>Current</td>
<td>24 V DC</td>
<td>24 V DC</td>
<td>24 V DC</td>
</tr>
<tr>
<td>Security</td>
<td>VPN (IPsec)/ NAT/ Firewall</td>
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</tr>
<tr>
<td>Special characteristics</td>
<td>KBA/ EN50155</td>
<td>Redundant power supply; Network management via SNMP</td>
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</tr>
</tbody>
</table>

**Benefits**

- High security standards by means of a firewall (Stateful Packet Inspection) and VPN connections (IP-Sec) as an integral component of the Industrial Security concept
- Low investment and operating costs for operator control and monitoring of remotely connected substations
- Reduction in traveling costs and personnel costs thanks to remote programming and diagnostics via mobile wireless networks
- Improved manageability thanks to mechanical integration due to the design (module format) with SIMATIC S7-1500 / ET 200MP
- Wide application area thanks to large bandwidth, high performance and speed
- The components are optimized for industrial use and integrated into the TIA environment
- User-friendly commissioning and diagnostics via Web interface
Advantages for the water supply and wastewater industry

- Efficient and safe monitoring and control of the entire drinking water supply and the wastewater network
- Economical use of rain overflow basins and protection of sewage treatment plant during heavy rainfall
- Increased supply reliability with simultaneous reduction in operating costs

Other applications

Connection of static and mobile stations for controlling and monitoring of:
- Water/wastewater treatment plants
- Oil and gas supplies
- District heating networks
- Power distribution
- Pumping stations
- Transportation systems

Worldwide condition monitoring, e.g. for wind turbines and photovoltaic plants
Industrial Security

Siemens provides automation and drive products with industrial security functions that support the secure operation of plants or machines. They are an important component in a holistic industrial security concept. With this in mind, our products undergo continuous development. We therefore recommend that you keep yourself informed with respect to our product updates. Please find further information and newsletters on this subject at: http://support.automation.siemens.com

To ensure the secure operation of a plant or machine it is also necessary to take suitable preventive action (e.g. cell protection concept) and to integrate the automation and drive components into a state-of-the-art holistic industrial security concept for the entire plant or machine. Any third-party products that may be in use must also be taken into account. Please find further information at: http://www.siemens.com/industrialsecurity

Get more information

Widely cross-linked via remote networks: www.siemens.com/remote-networks

Find out more: siemens.com/remote-networks

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