Key Features

- Communication
  RS485, TCP/IP, CAN, USB, Ethernet
- Support multi-component expansion
- EMC performance
- Global approvals
  Support CE, UL

Product Description

The SC520 is a microprocessor-based system monitoring module that is used to control and monitor small to large power systems by extending components. The monitoring module is simple to operate, easy to use, through TCP/IP and USB configuration of the main parameters; with battery management and remote control switch rectifier and other functions; with USB, RS485, TCP/IP and CAN communication interface.

Applications

- Wireless communication
- Broadband and network access
- Satellite communication ground station
- 3G/4G base station
- Telecom roadside carbiner

DC Power  AC Power  Centralized monitoring and management system
Embedded Power  Outdoor Power  Power Distribution  Services
High Voltage Variable Frequency Drives (VFD)  Electronic Air Cleaner
## Technical specifications

### Maximum ratings

- **Vin**: 72Vdc
- **Communication**: 5Vdc
- **ESD**: ≤8kV

### General

<table>
<thead>
<tr>
<th>Storage temp</th>
<th>-45 to 125°C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication</strong></td>
<td></td>
</tr>
<tr>
<td>6×RS485</td>
<td></td>
</tr>
<tr>
<td>1×UART</td>
<td></td>
</tr>
<tr>
<td>3×CAN</td>
<td></td>
</tr>
<tr>
<td>1×Ethernet Port</td>
<td></td>
</tr>
<tr>
<td>2×USB (1 Host, 1 OTG)</td>
<td></td>
</tr>
<tr>
<td><strong>Removable media</strong></td>
<td>Micro SD Card</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>Resistive touch panel, 5.0inch, 16.7M(24bit) color, 800×480</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>156mm×109mm×30mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>&lt;0.5 Kg</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Natural cooling</td>
</tr>
<tr>
<td><strong>MTBF</strong></td>
<td>&gt; 300,000h</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>Operating: ≤95% non-condensing</td>
</tr>
<tr>
<td></td>
<td>Storage: ≤99% non-condensing</td>
</tr>
</tbody>
</table>

### Features

- **Vin**: 18~60Vdc
- **Operating temperature**: -20 to 60°C
- **RS485**: 4 channel support baud rate from 4800bps to 19200bps, the default baud rate is 9600bps
- **UART**: Support GPRS
- **CAN**: 2 channel baud rate is 125Kbps, 1 channel baud rate is 500Kbps
- **Ethernet Port**: 10/100M BASE-T, HP Auto MDI/MDI-X

### Standards

- IEC60950 UL60950 EN60950
- EN300386 ClassB (emission)
- EN300386 ClassA (conducted immunity)
- IEC61000-4-6 (radiated immunity)
- IEC61000-4-4 (fast transients)
- IEC61000-4-5 (surge immunity)
- IEC61000-4-2 (electrostatic discharge)
- IEC61000-4-3