

# Product Overview

Update: 20.04.2010

## **truecon**<sup>®</sup> M2M Internet Router

Order-No.:	Description
HAP-RA	<p><b>truecon M2M Internet Router</b></p> <ul style="list-style-type: none"> <li>• Router with integrated modem</li> <li>• VPN (IPSec, PPTP), PPP (Point-to-Point-Protocol)</li> <li>• DynDNS – Dynamic Domain Name System</li> <li>• Firewall (Packet-Filter, NAT, etc.)</li> <li>• Management (DHCP, E-Mail, SNMP etc.)</li> <li>• HTML-Webserver (http/https)</li> <li>• 2 digital Inputs, 1 digital Output (Open Collector, 150mA)</li> <li>• Ethernet-Interface: RJ45, 10/100 MBit</li> <li>• Phone-Connector: RJ45 (ISDN); RJ11 (Analog)</li> <li>• Status LEDs: Power On, Network, Online, Digital I/Os</li> <li>• Temperature Range: 0...+70°C, Humidity: max. 90%</li> <li>• Power Supply: 12-30VDC, 250mA@24VDC</li> <li>• DIN Rail mount (EN50022)</li> <li>• Dimensions: 120x101x35mm, approx. 250g</li> <li>• Conform to ROHS and WEEE</li> <li>• <b>integrated Analog-Modem (56 KBit/s)</b></li> </ul> 
HAP-RAS	<p><b>truecon M2M Internet Router with integrated 4-port Ethernet switch:</b></p> <ul style="list-style-type: none"> <li>• like HAP-RA, with following changes:</li> <li>• integrated 4-port 10/100 MBit Ethernet Switch on front panel (original RJ45-Port with no function)</li> <li>• Auto Negotiation, Auto Crossing, Auto Polarity</li> <li>• Status-LEDs: Function, Link, Speed</li> <li>• Isolation: 1000VAC Ethernet and power supply</li> <li>• IEEE 802.3 (CSMA/CD), IEEE 802.3ux (Fast Ethernet, Full Duplex Mode)</li> <li>• Power supply: 12-30VDC, max. 450mA@24VDC</li> <li>• Operating temperature: -20°C...+70°C, Humidity: max. 90% rel.</li> <li>• Dimension: 120x101x60mm, approx. 450g</li> <li>• Conform to ROHS und WEEE (lead free)</li> </ul> 
HAP-RI	<p><b>truecon M2M Internet Router</b></p> <p>Description:</p> <ul style="list-style-type: none"> <li>• like HAP-RA, instead of Analog-Modem with <b>integrated ISDN-Modem (64 KBit/s)</b></li> </ul>
HAP-RIS	<p><b>truecon M2M Internet Router with integrated 4-port Ethernet switch:</b></p> <ul style="list-style-type: none"> <li>• like HAP-RAS, instead of Analog-Modem with <b>integrated ISDN-Modem (64 KBit/s)</b></li> </ul>
HAP-RG	<p><b>truecon M2M Internet Router</b></p> <p>Description:</p> <ul style="list-style-type: none"> <li>• like HAP-RA, instead of Analog-Modem with <b>integrated GSM/GPRS Quad-Band-Modem</b> and GSM-Antenna with 2.5m cable</li> <li>• <b>Operating temperature: -20°C...+70°C, Humidity: max. 90% rel.</b></li> </ul>
HAP-RGS	<p><b>truecon M2M Internet Router with integrated 4-port Ethernet switch:</b></p> <ul style="list-style-type: none"> <li>• like HAP-RAS, instead of Analog-Modem with <b>integrated GSM/GPRS-Modem</b> and GSM-Antenna</li> <li>• <b>Operating temperature: -20°C...+70°C, Humidity: max. 90% rel.</b></li> </ul>

## Product Overview

Update: 20.04.2010

### **truecon**<sup>®</sup> *M2M Internet Router*

<b>Order-No.:</b>	<b>Description</b>
HAP-RU	<b>truecon M2M Internet Router - GSM/GPRS/EDGE/UMTS (HSPA)</b> Description: <b>like HAP-RA, instead of Analog-Modem with integrated GSM/GPRS/EDGE/UMTS Modem (HSPA Category 8, HSUPA Category 5, Edge Class 12), SMA (female) connector, GSM-Antenna with 2.5m cable</b> · Operating temperature: -20°C...+70°C, Humidity: max. 90% rel.
HAP-RUS	<b>truecon M2M Internet Router with integrated 4-port Ethernet switch:</b> · <b>like HAP-RAS, instead of Analog-Modem with integrated integrated GSM/GPRS/EDGE/UMTS Modem (HSPA Category 8, HSUPA Category 5, Edge Class 12), SMA (female) connector, GSM-Antenna with 2.5m cable</b> · Operating temperature: -20°C...+70°C, Humidity: max. 90% rel.
AL3090S-3V	<b>Analog Socket Modem</b> incl. analog-cable
ISDN TA	<b>ISDN Socket Modem</b> incl. ISDN-cable
AL7024E3VR	<b>GSM/GPRS/EDGE Socket Modem</b> Quadband incl. Antenna with 2.5m cable
SW8790-3V	<b>UMTS Modem Kit - HSPA Category 8, HSUPA Category 5, Edge Class 12, GPRS, GSM;</b> incl. antenna
PS18A120-R	<b>Plug Power supply 18W</b> , Input: 90-264VAC, Output: 12VDC/1500mA, worldwide adapters included
DRAN60-24	<b>Power supply 60W</b> , Input: 90/264VAC, Output: 24VDC/2.5A, din rail mount <b>Dimensions:</b> Breite x Höhe x Tiefe (ca. 40,5 x 90 x 115 mm)
ISDN-LEI	<b>ISDN-Modem cable</b> 2,5 m / RJ45
ANALOG-LEI	<b>Analog-Modem cable</b> 2,5 m / RJ11
RS-232	<b>RS-232 serial null modem cable</b> 1,5 m
MCA-18990	<b>Outdoor antenna for GSM/GPRS</b> , Datasheet: <a href="http://www.hy-line.de/router">www.hy-line.de/router</a>
GSM-MA930	<b>Antenna with signal enhancer for GSM/GPRS</b> , Datasheet: <a href="http://www.hy-line.de/router">www.hy-line.de/router</a>
HAP-USV12	<b>USP (Uninterruptable Power Supply) 1x power supply, 1x accu</b> , Input voltage: 230VAC/50Hz, Output Voltage: 12VDC/1A, width: 140mm, Temperature Range: -10..+40°C, Humidity: 5...90%, CE
HAP-USV24	<b>USP (Uninterruptable Power Supply) 1x power supply, 1x charge controller, 2x accus</b> , Input voltage: 230VAC/50Hz, Output Voltage: 24VDC/1A, width: 2x 140mm, Temperature Range: -10..+40°C, Humidity: 5...90%, CE

**Warranty:** 12 month

HY-LINE Systems GmbH reserves the right to make changes to the illustrations and information in this documentation without previous announcement.

**HY-LINE**<sup>®</sup> **Systems GmbH**  
Inselkammerstr. 10 82008 Unterhaching / GERMANY

Tel +49 (0)89/ 614503-81 Fax +49 (0)89/ 614503-85  
systems@hy-line.de www.hy-line.de