



YAWiD electronics GmbH

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M.A.J.A. Mobile Autonomous Java Application GPS · GSM · UMTS · Java™ Wireless Terminal

| M.A.J.A. EHS5 | |
|------------------------------|--|
| GSM Frequencies | Dual band GSM EHS5-E: 900 and 1800 MHz EHS5-US: 850 and 1900 MHz |
| UMTS Frequencies | Dual band UMTS (WCDMA/FDD) EHS5-E: 900 and 2100 MHz EHS5-US: 850 and 1900 MHz |
| Command Sets | AT commands (Hayes, TS 27.007 and 27.005) TCP/IP stack and transparent TCP services |
| IP Data Transmission | HSDPA/HSUPA (DL/UL: max. 7,2/5,76 Mbps) EDGE class 12 (DL/UL: max. 237 kbps) GPRS class 12 (DL/UL: max. 85,6 kbps) |
| Data Transmission | CSD (max. 9.6 kbps, V.110, non-transparent) SMS (text and PDU mode) |
| Supply Voltage | 8 to 48 VDC |
| Dimensions | 71,4 mm x 62 mm x 30 mm |
| Weight | 108 g |
| Operating temperature | -40°C to +85°C |



Made in Germany



| Special Features | Java™ Open Platform | Interfaces |
|---|---|--|
| Informal network scan RLS monitoring (jamming detection) Multiplexer according 3GPP TS 27.010 | Java™ profile IMP-NG & CLDC 1.1 HI; Java™ ME 3.2 | V.24/V.28 EIA-232 interface, 9-pole D-sub female socket, up to 920 kbps, autobauding |
| Firmware update via USB, serial interface or over-the-air (FOTA) | Multi-threading programming Multi-application execution | USB 2.0, type B, high speed (480 Mbit/s) and full speed (12 Mbit/s) interface |
| Real time clock with alarm functionality | 10 MB Flash File System 6 MB RAM | USB modem port USB communication ports Debug modem port |
| Configurable enhanced watchdog | Secure data transmission with HTTPS/SSL | SMA GSM/UMTS antenna connector (female) |
| Configurable auto-start and re-start (always-on) | | SMA GNSS antenna connector (female) |
| Protocols of power-up, re-start and watchdog events | Drivers | Power supply connector with screw clamps (4-pole IGT, RST, MINUS, PLUS) |
| Input voltage measurement | USB for Microsoft® Windows XP™, Vista™, 7™ and 8™ | Mini SIM card reader; 1,8V and 3,0V; optional embedded SIM IC (MIM) |
| Temperature sensor | RIL, USB driver for Microsoft® Windows Embedded Handheld™ ≥ 6.x | 6 LED for power, network status, GPS time pulse, power/mode, free programmable |
| GPS/GNSS Receiver GPS L1 C/A (NMEA) GLONASS L1 FDMA | MUX driver for Microsoft® Windows XP™, Vista™ and 7™ | 8 galvanic isolated inputs |
| Prepared for QZSS and Galileo | USB compliant mode for Linux and Mac | 4 galvanic isolated outputs |
| Switchable GNSS antenna supply | | Max. input/switching voltage: 48 V _{DC} |
| Increased jamming immunity | | Max. load current: 600 mA _{rms/DC} |

Alle Angaben dienen der Produktbeschreibung und sind nicht als zugesicherte Eigenschaft oder Garantien im Rechtssinne zu verstehen. Änderungen vorbehalten.
Die Abbildungen zeigen teilweise Zubehör gegen Mehrpreis.

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The figures may show accessories at additional cost.




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M.A.J.A. - Accessories

| Power Supply | Power Supply with interchangeable AC Blades | USB Cable A to B | EIA-232 Cable | Power Cable for Car Power Socket |
|---|---|---|---|---|
|  |  |  |  |  |
| YAWiD No. 410002 | YAWiD No. 410004 | YAWiD No. 430102 | YAWiD No. 430101 | YAWiD No. 410011 |
| Power supply wall adapter | Power supply wall adapter for interchangeable AC blades | USB data cable type A/B | Sub-D9 data cable length 1,5 m black | Cable for vehicle power socket |
| stripped and tinned | stripped and tinned | length 1 m color black | | stripped and tinned |
| AC input: 100-240 VAC 0,45 A 50-60 Hz | AC input: 100-240 VAC 0,4 A 50-60 Hz | | | length 1,8 m red/black |
| DC output: 12 VDC 1.5 A | DC output: 12 VDC 1.3 A | | | LED red Fuse 3A |
| | EURO AC-adapter: YAWiD No. 410015 | | | |
| | US AC-adapter: YAWiD No. 410014 | | | |
| Combo Antenna GPS / GSM / UMTS | Combo Antenna GPS / GSM / UMTS | Vending Antenna GSM / UMTS | Multiband Antenna GSM / UMTS / LTE | Multiband Antenna GSM / UMTS / LTE |
|  |  |  |  |  |
| YAWiD No. 420083 | YAWiD No. 420018 | YAWiD No. 420015 | YAWiD No. 420081 | YAWiD No. 420071/2 |
| Frequency bands 850/868/900/1800/1900/2100 MHz | Frequency bands 890 – 960 MHz 1710 – 1890 MHz 1885 – 2170 MHz | Frequency bands 890 – 960 MHz 1710 – 1890 MHz 1885 – 2170 MHz | Frequency bands 800/868/900/1800/1900/2100/2400/2600 MHz | Frequency bands 800/868/900/1800/1900/2100/2400/2600 MHz |
| Gain 1-5 dBi typ. | Gain 1-5 dBi typ. | Gain 1-5 dBi typ. | Gain 0-3,2 dBi typ. | Gain 0-2,14 dBi typ. |
| GPS 1575,42 MHz | GPS 1575,42 MHz | 0,5 m RG174 cable with SMA (m) | 2,5 m RG174 cable with SMA (m) | Connector SMA (m) |
| Gain 25 dBi typ. | Gain 25 dBi typ. | | | YAWiD No. 420071 Straight |
| 3 m RG174 cable with SMA (m) | 3 m RG174 cable with SMA (m) | | | YAWiD No. 420072 Right angle |