# » M2M Smart Services Developer Kit «



## M2M Smart Services Developer Kit

### Simply connected

» Ready-to-run M2M platform
» Broad connectivity for efficient enterprise solutions
» Ample performance for a wide range of application tests
» Qualified by multiple carriers

**The pulse of innovation**

# M2M Smart Services Developer Kit

The Kontron M2M Smart Services Developer Kit offers efficient enterprise solutions by enabling faster time-to-market with quick development and deployment of M2M applications.

The Kontron Developer Kit was especially designed for deployment in laboratories and for test installations in office and home environments. Due to its flexible chassis concept, adaptation is simplified, which translates into faster time-to-market. Using the Intel Atom E600 series processor provides high performance for a wide range of application tests.

Kontron's M2M Smart Services Developer Kit is designed for developers who need a simple development platform for quick solutions. After unpacking, the device is immediately ready to go and can be used for developing numerous applications. The pre-installed Operating System ensures drivers are installed and available, no more searching for drivers! Its 0-50c temperature range makes it adaptable to almost all application areas. 802.11a/b/g/n WLAN and 802.15.4 WPAN support is standard in Kontron's M2M Smart Services Developer Kit. Further, the modules are also equipped with an accelerometer, 2x microHDMI, Audio, 1x Gigabit Ethernet, and USB 2.0.

## Technical Information

| | |
|---|---|
| **Product** | Kontron M2M Smart Services Developer Kit |
| **Chassis Dimensions (H x W x D)** | 67 x 100 x 27mm (92 x 100 x 62mm with mounting brackets) |
| **Interfaces Top** | SIM slot |
| **Interfaces Left** | USB 2.0 (Type A), MicroUSB 2.0 (Type B), Power, RJ-45 Ethernet, 2x antenna connectors |
| **Interfaces Right** | Microphone, Headphone/Line Out, 2x MicroHDMI, MicroSD slot, MicroUSB 2.0, 2x antenna connectors |
| **Controls on top** | Reset button, user input button/software enabled, LED status indicators |
| **Internal Data Storage capacity** | 4 GB via internal MicroSD card |
| **External Power Supply** | 12 VDC, 2A operating input/rating |
| **Processor/Chipset** | Intel® Atom™ processor E620 600MHz |
| **Cache** | 32 KB instruction cache + 24 KB L1 cache, 512 KB L2 cache |
| **Memory** | 1 GB DDR2 |
| **Wi-Fi  WLAN (802.11b/g/n)** | Intel® Centrino® Advanced N 6205 Wi-Fi module installed |
| **WPAN (802.15.4)** | TI CC2531 SOC; ready for ZigBee® certification or for 6LoPAN or Wireless HART WPAN use |
| **3G/4G WWAN** | Ericsson 3G module installed or other PCI Express 3G/4G broadband module on request |
| **Expansion (for non-3G option SKU)** | 1 PCIe MiniCard slot for WWAN 3G/4G broadband module (certification/drivers needed) or solid state disk addition |
| **Accelerometer** | Ultra low-power high performance three axis linear accelerometer |
| **Weight** | 0.8 lb/0.36 kg system; 2.35 lb/1.1 kg packaged kit |
| **Temperature** | Operating: -0°C to +50°C, Storage: -25°C to +70°C (-13°F to 158°F) |
| **Humidity** | Operating: 5 to 95 % RH @ 25-35°C non condensing |
| **Shock** | Operating: 2G 11ms duration, 6 directions (half-sine), Non-operating: 25G 11ms duration, 6 directions (half-sine) |
| **Vibration** | Packaged: 2G  5-40 Hz: sloping to 0.00015 g2/Hz@ 500 Hz; Unpackaged system: 5-500 Hz: 0.5G sine / 3 axis |
| **Approvals** | Nemko NRTL 60950-1, FCC Class B, CE, PTCRB certified |
| **OS** | Wind River Intelligent Device Platform 1.0 1.6 – 90 day trial; 2x 3G antennas (on request) |
| **Also in the Box** | 2x 3G antennas (including cabling), 2x 802.11/802.15.4 antennas, 16 GB USB Memory stick with Wind River Linux LiveUSB and USB adapter, 90-240VAC PSU |
| **For additional information** | www.kontron/M2M |

## Ordering Information

| Article | Description |
|---|---|
| KM2M806-01 | Kontron M2M Smart Services Developer Kit (WiFi only) |
| KM2M806-02 | Kontron M2M Smart Services Developer Kit (3G HSPA) |
| KM2M806-08 | Kontron M2M Smart Services Developer Kit (3G CDMA) |
| KM2M806-09 | Kontron M2M Smart Services Developer Kit (4G LTE) |

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