

MC75i



Powerful
Processor
Large
Memory



SIM Access
Profile



Quad-Band



Tunneling
Mode



EDGE / GPRS
Class 12



Industrial
Interface



USB



RIL Driver



TCP/IP



RLS Monitor
(Jamming
Detection)



OTHER FAMILIES

Cinterion® MC75i Wireless Module

Full Featured, Truly Industrial and Scalable Platform

Cinterion® MC75i Wireless Module

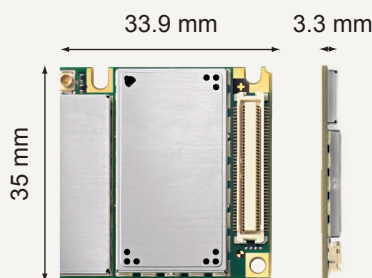
Full Featured, Truly Industrial and Scalable Platform

The Cinterion MC75i module offers scalability, compatibility and an easy path to future upgrades and added functionality as technology needs expand.

The award winning product features a flexible, easy to maintain and reliable mounting concept along with optimized size and performance. The refresher with Release 2 adds several additional features such as tunneling mode or a location API for the Java variant.

The product is based on an advanced processor design and the field proven and reliable Cinterion M2M software stack. The latest chip technology enables high performance, improved efficiency and the benefit of long-term availability. Like all Cinterion modules the MC75i includes approval (FTA) enabling use across the globe.

Full Featured, Truly Industrial and Scalable Platform



EDGE Class 12 – The highest symmetric data speed (236 kbps in uplink and downlink) for M2M applications requiring quick data transmissions.

GPRS Class 12 – High symmetric data speed (86 kbps in uplink and downlink) for M2M applications.

RLS Monitoring – Remote Link Stability Monitoring providing network performance information which enables for example effective customized jamming detection.

Tunneling mode – A smart way that allows the microcontroller to control any device that has a serial interface like GPS receiver or NFC device through the module and enable transparent communication.

Advanced Temperature Management – Protects the module in critical thermal environments to maintain reliability and functionality, allowing a long product life time.

Location API – Easy connection for external GPS to provide coordinates, landmarks or landmark stores.

Multi SIM Interface – Flexible SIM interface enables usage of the best fitting and newest SIM technology – from regular SIM cards to M2M component SIM's.

Gemalto M2M Support includes:

- > Personal design-in consulting for hardware and software
- > Extensive RF test capabilities
- > GCF/PTCRB conform pretests to validate approval readiness
- > Regular training workshops



Local engineers, a competent helpdesk, a dedicated team of R&D specialists and an advanced development center are the hallmarks of our leading support offer.

Cinterion® MC75i Features

GENERAL FEATURES

- > Control via AT commands (Hayes, 3GPP TS 27.007 and 27.005)
- > Circuit Switched Data: Up to 14.4 kbps
- > SMS, PDU mode, cell broadcast
- > Fax: Group 3, class 1
- > TCP/IP stack access via AT commands and transparent TCP service
- > Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3, Ping
- > Supply voltage range: 3.2 ... 4.5 V
- > Operational temperature range:
 - > -40 °C to +75 °C
 - > switch off: > +80 °C
- > Dimensions: 33.9 × 35.0 × 3.3 mm
- > Weight: 7.5 g

SPECIFICATION FOR EDGE DATA TRANSMISSION

- > EDGE Class 12
 - DL: max. 236.8 kbps, UL: max. 236.8 kbps
- > Modulation and coding schemes MCS 1-9

SPECIFICATION FOR GPRS DATA TRANSMISSION

- > EDGE Class 12
 - DL: max. 86 kbps, UL: max. 86 kbps
- > Coding schemes CS 1-4

SPECIFICATION FOR VOICE

- > Triple-rate codec for HR, FR, and EFR
- > Adaptive multi-rate AMR
- > Hands-free operation, Echo cancellation & Noise reduction

SPECIAL FEATURES (EXTRACT)

- > Secure data transmission with HTTPS, SSL and PKI
- > Serial interface modem for Microsoft® Windows 7™/XP™/Vista™
- > RLS Monitoring (Jamming Detection)
- > Advanced Temperature Management
- > Informal Network scan (easy scan)
- > Firmware update via serial and USB interface
- > TLS for IP over AT
- > Tunneling mode for external serial devices
- > Real time clock with alarm functionality

INTERFACES

- > Antenna: U.FL-R-SMT + 50 Ω solder pad
- > Audio: 2 × analog, 1 × digital
- > 2 × Serial interfaces (ITU-T V.24 protocol)
- > SIM card interface: 3 V, 1.8 V
- > USB 2.0 full speed
- > I²C & SPI bus

DRIVERS

- > RIL driver for Microsoft® Windows CE™ based devices
- > Multiplex Driver Microsoft® Windows and Linux

APPROVALS

- > Local approvals and network operator certifications (list available)
- > CE, R&TTE, GCF, UL, FCC, IC, PTCRB, RoHS

For more information, please visit

gemalto.com/m2m, www.facebook.com/gemalto, or Follow @gemaltom2m on twitter.

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security to be free