

AC75i / AC65i



GPRS / EDGE
Class 12



Quad-Band



RLS Monitoring



Multi SIM
Interface



eCall
compliant



Advanced
Temperature
Management



Antenna
Diagnostics



Embedded
Processing



Powerful
Processor
Large Memory
Integrated



Industrial
Interfaces



AUTOMOTIVE

Cinterion® AC75i / AC65i Wireless Module

Highest Reliability and Quality for Automotive Applications

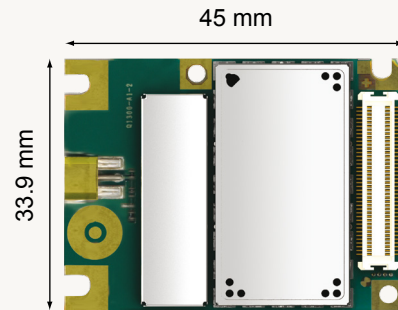
Cinterion® AC75i / AC65i Wireless Module

Highest Reliability and Quality for Automotive Applications

Cinterion has a long history of successful products for automotive applications. Cinterion automotive grade products are designed to meet the requirements of the automotive industry offering special automotive features as well as compliance with all relevant quality standards such as TS16949. Additionally Cinterion offers a broad range of support packages and a full life cycle service concept.

The AC75i / AC65i represent the 6th generation of dedicated automotive modules offering advanced telematic features and are prepared to meet the requirements of the European eCall initiative. Both products are fully type approved including local network provider approvals creating a perfect basis for applications like toll collect, telematics, fleet management as well as emergency call, breakdown or roadside assistance.

Highest Reliability and Quality for Automotive Applications



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® AC75i / AC65i Features

GENERAL FEATURES

- > Quad-Band GSM:
850 / 900 / 1800 / 1900 MHz
- > EDGE (E-GPRS) multi-slot class 12 (AC75i)
- > GPRS multi-slot class 12
- > GSM release 99
- > Output power:
 - > Class 4 (2W) for EGSM850
 - > Class 4 (2W) for EGSM900
 - > Class 1 (1W) for GSM1800
 - > Class 1 (1W) for GSM1900
- > Control via AT commands
[Hayes 3GPP TS 27.007 and 27.005]
- > SIM Application Toolkit (release 99)
- > TCP/IP stack access via AT commands
- > Internet Services: TCP, UDP, HTTP, FTP,
- > SMTP, POP3
- > Supply voltage range: 3.2 ... 4.5 V
- > Charging control for Lithium batteries
- > Temperature range -40 °C to +85 °C
 - > Protection switch off
- > Dimensions: 33.9 × 45 × 3.3 mm
- > Weight: approx. 8.5 g

SPECIFICATION FOR VOICE

- > Triple-rate codec for HR, FR, and EFR
- > Adaptive multi-rate AMR
- > Enhanced hands-free operation according to VDA Specification
- > Echo cancellation, noise suppression
- > DTMF

SPECIFICATION FOR SMS

- > Point-to-point MO and MT
- > SMS cell broadcast
- > SMS over GPRS or CSD
- > Text and PDU mode

SPECIFICATION FOR GPRS DATA TRANSMISSION

- > GPRS class 12: max. 86 kbps (DL & UL)
- > Mobile station class B
- > PBCCH support
- > Coding schemes CS 1-4

SPECIFICATION FOR CSD DATA TRANSMISSION

- > Up to 14.4 kbps
- > V.110
- > Non-transparent mode
- > USSD support

SPECIFICATION FOR FAX

- > Group 3, class 1

OVER-THE-AIR UPDATE

- > Application SW: OTAP
- > Firmware: FOTA

SPECIFICATION FOR EDGE DATA TRANSMISSION (AC75I)

- > EDGE class 12: max. 236.8 kbps (DL & UL)
- > Mobile station class B
- > Modulation and coding scheme MCS 1-9

JAVA™ FEATURES (AC65I)

- > CLDC HotSpot™ Implementation 1.1.2
- > Java ME™ profile IMP-NG
- > Secure data transmission with HTTPS and PKI
- > Improved power-saving modes
- > Multi-threading
- > On-device-debugging

APPROVALS

- > R&TTE, FCC, UL, IC, GCF, PTCRB, e-mark, CE
- > Local approvals and network operator certifications

INTERFACES

- > Rosenberger SMP 50 Ω antenna connector for automotive environment
- > Antenna pad for contact springs
- > 80-pin board-to-board connector
 - > Power supply
 - > Audio: 2 × analog, 1 × digital (PCM)
 - > 2 × serial interfaces (ITU-T V.24 protocol, up to 921 kbps)
 - > USB 2.0 full speed
 - > SIM card interface 3 V, 1.8 V
 - > I²C bus and SPI bus
 - > ADC input
 - > DAC output with PWM
 - > Multiple dedicated GPIOs

SPECIAL AUTOMOTIVE FEATURES

- > Prepared for European eCall
- > SIM Access Profile integrated
- > RLS monitoring (e.g. for jamming detection)
- > Advanced temperature management
- > Measurement of module temperature
- > Antenna diagnostic (up to 2 ext. antennas)
- > Emergency call at high temperature
- > IMDS listed & GASDL compliant
- > TS16949 development and manufacturing
- > RIL software for Microsoft® Windows Mobile™ based devices
- > Multiplexer driver for Microsoft® Windows

For more information, please visit

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

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