

InTek J65i-X

GPRS μ Concentrator / RTU / Modem

- . GPRS Multi-Slot Class 12
- . IEC 60870-5-104 Slave over GPRS Static
- . IEC 60870-5-104 Slave TCP Client over GPRS
- . IEC 60870-5-101 Slave over RS232C
- . IEC 60870-5-101 Master over RS232/RS485
- . DNP 3.0 Master over RS232/RS485
- . Modbus RTU Master over RS232/RS485
- . Transparent Routing "Serial <-> TCP"
- . Internal 6 DI, 4 DO/RO, and 2 AI



Powerful Processor : embedded ARM9
Large Memory : 1.7 MB RAM,
8 MB Flash File



Quad-Band



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



FOTA (Firmware Update Over The Air) and allows customers to use extended memory in the latest TC65i-X module.



JAVA offers easy and fast application development, a broad choice of tools, high code reusability, easy maintenance, a proven security concept, on-device debugging as well as multi-threading programming and program execution.



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

Location API – Easy connection for external GPS to provide coordinates, etc.



Ready to Use I/O [RTU Application]

Digital Inputs with 5 to 60 VDC range
Digital Outputs with Relay Free Contact
Analog Inputs with 0-5VDC, 0-15VDC, etc.
Fully Accessible via the listed Protocols



TCP / IP

Support both Dynamic (DHCP) and Static IP



USB



Industrial Interface

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



SIM Access Profile

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.



RLS Monitor (Jamming Detection)

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

based-on **Cinterion TC65i-X** module GPRS [ready to be used as GPRS Modem without JAVA application]

Design and Developed by : **Integra Teknik Asia, PT.** [INDONESIA]. Hardware Made in CHINA.

InTek J65i-X

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General features

Control via AT commands (Hayes, 3GPP TS 27.007 and 27.005)
GPRS multi-slot Class 12 Class 12
Circuit Switched Data Up to 14.4 kbps
SMS, PDU mode, cell broadcast
TCP/IP stack access via AT commands and transparent TCP service
Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3, Ping
Supply voltage range: 7 to 40 VDC
Operational temperature range: -40°C to +75°C, switch off: > +80°C
Dimensions: 140mm x 105mm x 20mm
Weight: 100 g [with Metal Casing]

Specification for GPRS data transmission

GPRS Class 12 Max. 86 kbps (DL and UL)
Coding schemes CS 1-4

Java™ features

Java™ profile IMP-NG & CLDC 1.1 HI, GPS support
Multi-threading programming and program execution
1,7 MB RAM and 8 MB Flash File System (TC65i-X)

Special features (extract)

Secure data transmission with HTTPS, SSL and PKI
Multiplex Driver Microsoft® Windows and Linux
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
Integrated Firmware Update Over The Air (FOTA) (TC65i-X)
TLS for IP over AT
Tunneling mode for external serial devices
Real time clock with alarm functionality

Interfaces

Antenna: SMA Female 50 Ω
Serial interfaces (ITU-T V.24) : 1 x RS232 (DB9-F) and 1 x RS232/RS485 (DB9-M)
SIM card interface 3 V, 1.8 V
USB 2.0 full speed
ADC [Analog Input] : 2 channels
Digital Inputs : 6 channels Digital/Relay Output : 4 channels

Approvals [for TC65i-X GPRS Module]

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