

MCS Mobile M2M Overview 2011

☑ Mobile Engines

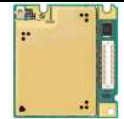


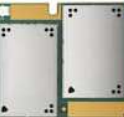
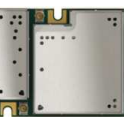
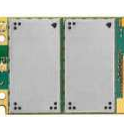
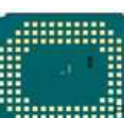
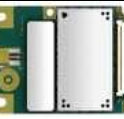
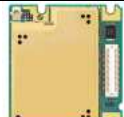
☑ Mobile Terminals

☑ Mobile Routers

For more information:




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Mobile Engines Cinterion							
Family	Product	Image	Network	Connector	Interfaces	Temp. Range	Key Features
M2M Value	Cinterion MC55i		GPRS Quad-Band/CL10	50 pin B2B	- 2 serial	-40°C to +70°C	- Most sold engine worldwide
	Cinterion BG2		GPRS Quad-Band/CL10 Dual-Band/CL8	60 pin B2B Solder Mount.	- 10 GPIO's - I2C interface - ADC/DAC - 2 serial	-40° to +85°C	- RF-Connect via B2B connector - Solderable mounting - Component SIM possible
M2M Evolution	Cinterion MC75i		GPRS/EDGE Quad-Band/CL12	80 pin B2B	- I2C interface - 2 serial - 1 USB	-40°C to +75°C	
	Cinterion TC63i		GPRS Quad-Band/CL12				
	Cinterion TC65i		GPRS Quad-Band/CL12				
M2M Advanced	Cinterion EU3		UMTS/HSDPA 384 kbps/3.6 Mbps Tri-Band 3G/ Dual-Band GPRS/EDGE CL10	80 pin B2B	- 10 GPIO's - ADC - 1 High spd serial - 1 USB	-40° to +85°C	- UMTS on 900 MHz - 460 kbps serial - Support videocalls
	Cinterion PH8		UMTS/HSDPA/HS UPA 5.7 Mbps/14.4 Mbps 5-Band 3G/ Quad-Band GPRS/EDGE CL10	80 pin B2B	- 1 serial - 1 USB	-30°C to +75°C	- GPS
	Cinterion HC25/ HC28		UMTS/HSDPA 384 kbps/3.6 Mbps Tri-Band 3G/Quad-Band GPRS/CL10	50 pin B2B	- 1 serial - 1 USB	-30°C to +75°C	- GPS - HC28: Japanese approvals
M2M BGA platform	Cinterion BGS2/ BGS3/ EES3/ EGS3/ EGS5		GPRS/EDGE Solderable/LGA versions of: MC75i > EES3 MC55i > BGS3 TC63i > EGS3 BG2 > BGS2 TC65i > EGS5		- See above	-40°C to +85°C	
M2M Automotiv.	Cinterion AC65i/ AC75i/ AGS3		GPRS/EDGE Quad-Band/CL12	80 pin B2B	- I2C interface - 2 serial - 1 USB	-40°C to +85°C	- AC65i: JAVA - AGS3: solderable/LGA - eCall prepared - Antenna Diagnostics
GSM-R Railway	TrioRail TRM3		GSM-R Quad-band GSM-R based on MC55i	50 pin B2B	- 2 serial	-40°C to +70°C	- Railway applications

➔ Migration Path GPRS/UMTS/HSDPA: pin-pin/mounting hole compatible

Mobile Terminals							
Category	Product	Image	Network	Power	Interfaces	Temp.	Key Features
Plain GSM/GPRS or GSM-R Terminals	Cinterion MC55iT / MC52iT		GSM/GPRS MC55iT: Quad-Band/CL10 MC52iT: Dual-Band/CL8	8-30V	- 1 serial	-20°C to +55°C	- Successor of TC35iTerminal and MC35iTerminal
	TrioRail TRM3		GSM-R Quad-band GSM-R	8-30V	- 1 serial	-20°C to +55°C	- Railway applications
	HCP HIT55 USB		GSM/GPRS Quad-Band/CL10	7-30V	- 1 USB	-20° to +60°C	- Based on MC55i engine - Driver creates com port
Extended GSM/GPRS Terminals And SMS Alarm units	Cinterion TC65iT Low Voltage I/O terminal		GSM/GPRS Quad-Band/CL12 	8-30V	- 10 GPIOs, 3 V, 1 pulse counter - 2 ADC in 0-5V - I2C + SPI - 1 serial	-30°C to +75°C	- JAVA - Memory: 400KB RAM, 1.7 MB Flash
	TC65T2 Dual port		GSM/GPRS Quad-Band/CL12 	8-30V	- 2 serial OR - 1 serial, 1 USB	-40°C to +75°C	- Dual port - JAVA - Watchdog
	MCS Dinbox DB65 I/O terminal		GSM/GPRS/SMS Quad-Band/CL12 Based on TC65i engine 	100-260V 8-30V (opt.)	- 4 DI dry/9-30V - 2 DO Relay - 1 ADC in,0-5V - 2 serial	-10° to +50°C	- JAVA - Integrated power supply - Back-up battery (opt.) - Watchdog SOFTWARE (opt.): - SMS alarm application
	MCS Dinbox SMS Alarm		SMS On request GSM/GPRS Quad-Band/CL10	10-40V	- 4 DI 10-40 VDC - Other I/O's optional - 1 serial (conf.)	-10° to +50°C	- Super CAPS back-up (opt.) - Watchdog SOFTWARE: - SMS alarm application
GPS GSM/GPRS Terminal	HCP Hunter GPS, I/O terminal		GSM/GPRS Quad-Band/CL12 Based on TC65i engine 	8-30V	- 4 DI,max 30V, opto-isolated - 4 DO,opn coll. opto-isolated - 2 ADC (0-10V) - 1 serial	-30° to +75°C	- GPS Sirf III - JAVA - HW watchdog - Back-up batt (opt.) SOFTWARE (opt.): - sms alarm/object locator
3G Terminal	HCP HIT 25 USB HSDPA		UMTS/HSDPA 384 kbps/3.6 Mbps Tri-Band 3G/ Quad-Band GPRS/EDGE	USB powered	- 1 USB	-30°C to +65°C	- Based on HC25 engine

Mobile Routers							
Category	Product	Image	Network	Power	Interfaces	Temp. Range	Key Features
Mid End Industrial Router	Conel ER75 UR5 UR5i		GPRS/EDGE/HSDPA/HSUPA 384 kbps/3.6 Mbps 2 Mbps/7.2 Mbps	10-30V	- 1 Eth.,1-2 USB - Optional: RS232, RS485, I/O, 2 nd LAN, MODBUS	-20°C to +55°C	- Always on,ping keep alive - Dinrail clips - Optional Dual Sim (standard on UR5i) - Metal casing (opt.) - SMS control
High End Mission Critical Router	Digi TRANSPORT WR4x 3G		GPRS/EDGE/HSDPA/HSUPA Max 7.2 Mbps	5V 100-240V adapt	- 1 Eth. - 1 serial (more opt.) - 1 USB	-20°C to +55°C	- Enterprise class routing and security protocols Option: - 50ch. GPS, I/O's
	Digi TRANSPORT DR4x 3G/DSL/WiFi		ADSL/PSTN/HSDPA/HSUPA WiFi Max 7.2 Mbps	12V 100-240V adapt	- 4 Eth., WiFi - ADSL, PSTN - 2 USB - 6 RS422 (opt.)	-20°C to +55°C	- Enterprise class routing and security protocols - DSL w. 3G back-up