

	MX-4 MIL	MX-4 HM	MX-4 T20	MX-4 T30	MX-4 T30 FR	MX-4 V61
Part Number		HMP069/9c (EU Modem) HMP069/9d (US Modem)	HMP075/3 (EU MODEM) HMP075/5 (US MODEM)	HMP075/2 (EU MODEM) HMP075/6 (US MODEM)	HMP075/4 (EU MODEM) HMP075/7 (US MODEM)	HMP077/2 (EU MODEM)
Size	235x156x56 mm	174.1x166x32 mm	127x166x32 mm	127x166x32 mm	127x166x32 mm	93.6x90x24.5 mm
Weight	2400 g	580 g	456 g	456 g	456 g	?
IP	IP 65	IP 30	IP 30	IP 30	IP 30	IP 30
Temperature Rating	-40 to +85°C	-40 - +70 °C	-40 - +70 °C	-40 - +70 °C	-40 - +70 °C	-40 - +70 °C
Connectors	62IN-57A-12-14P 62IN-57A-10-6P 62IN-57A-18-32P MIL-DTL-83526 Junior	14 pin JAE IL AG-5 18 pin JAE IL AG-5 22 pin JAE IL AG-5	D-Sub 15-pin male D-Sub 25-pin male	D-Sub 15-pin male D-Sub 25-pin male	D-Sub 9-pin male D-Sub 15-pin male D-Sub 25-pin male	D-Sub 15-pin male
Audiokontakt	-	14 pin JAE IL AG-5	2 x 3.5 mm stereo jack	2 x 3.5 mm stereo jack	2 x 3.5 mm stereo jack	-
USB Connectors	2 x USB Type B	2 x USB Type B (High Retention)	2 x USB Type B (High Retention)	2 x USB Type B (High Retention)	2 x USB Type B (High Retention)	1 x USB Type B (High Retention)
Antenna, GPS	-	FAKRA Code C (Blue)	FAKRA Code C (Blue)	FAKRA Code C (Blue)	FAKRA Code C (Blue)	FAKRA Code C (Blue)
Antenna, LTE/GPRS	-	FAKRA Code D (Bordeaux)	FAKRA Code D (Bordeaux)	FAKRA Code D (Bordeaux)	FAKRA Code D (Bordeaux)	FAKRA Code D (Bordeaux)
Antennkontakt WiFi	-	FAKRA Code I (Beige)	FAKRA Code I (Beige)	FAKRA Code I (Beige)	FAKRA Code I (Beige)	-
SIM-card connector	-	External	Internal	Internal	Internal	Internal
Internal watchdog	Yes	Yes	Yes	Yes	Yes	Yes
Boot loader	uBoot	uBoot	uBoot	uBoot	uBoot	uBoot
OS	Linux 3.1.10	Linux 3.1.10	Linux 3.1.10	Linux 3.1.10	Linux 3.1.10	Linux 4.1.5
CPU	ARM Cortex-A9	ARM Cortex-A9	ARM Cortex-A9	ARM Cortex-A9	ARM Cortex-A9	ARM Cortex-A5 ARM Cortex-M4
CPU Frequency	Dual Core, 1.0 GHz	Dual Core, 1.0 GHz	Dual Core, 1.0 GHz	Quad Core, 1.4 GHz	Quad Core, 1.4 GHz	500 MHz 167 MHz
RAM	256 MB DDR2 (32 bit)	512 MB DDR2 (32 bit)	512 MB DDR2 (32 bit)	1 GB DDR3 (32 bit)	1 GB DDR3 (32 bit)	256 MB DDR3 (16 Bit)
Flash	512 MB NAND (8 bit)	1 GB NAND (8 bit)	1 GB NAND (8 bit)	4 GB eMMC	4 GB eMMC	512 MB NAND (8 Bit)
Power Supply	7 - 38 V	8 - 36 V	8 - 36 V	8 - 36 V	8 - 36 V	8 - 36 V
GSM/GPRS/Edge (Fallback)		900/1800MHz	900/1800MHz	900/1800MHz	900/1800MHz	900/1800MHz
LTE		800 (Bd20) / 900 (Bd8) / 1800 (Bd3) / 2100 (Bd1) / 2600MHz (Bd7)	800 (Bd20) / 900 (Bd8) / 1800 (Bd3) / 2100 (Bd1) / 2600MHz (Bd7)	800 (Bd20) / 900 (Bd8) / 1800 (Bd3) / 2100 (Bd1) / 2600MHz (Bd7)	800 (Bd20) / 900 (Bd8) / 1800 (Bd3) / 2100 (Bd1) / 2600MHz (Bd7)	800 (Bd20) / 900 (Bd8) / 1800 (Bd3) / 2100 (Bd1) / 2600MHz (Bd7)
WiFi		802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 a/b/g/n Dual Band	-
GNSS-mottagare		GPS+GLONASS	GPS+GLONASS	GPS+GLONASS	GPS+GLONASS	GPS+GLONASS
Ext. startsignal		Yes	Yes	Yes	Yes	Yes
Int. startswitch		No	Yes	Yes	Yes	Yes
Analogue Input	4 x 4-20 mA	3 x 0-32 V, 1 x 4-20 mA	2 x 0-32 V	2 x 0-32 V	2 x 0-32 V	
Analogue Output	4 x 0-10 V	-	-	-	-	-
Digital Input	4	6	6	6	6	4
Digital Output	4	5	6	6	6	4
Pulse Counter	-	1	1	1	1	-
Accelerometer	Yes	Yes	Yes	Yes	Yes	Yes
µSD-korthållare			Yes	Yes	Yes	Yes
Ethernet	1 x 10/100 Mbit/s	2 x 10/100 Mbit/s	2 x 10/100 Mbit/s	2 x 10/100 Mbit/s	2 x 10/100 Mbit/s	1 x 10/100 Mbit/s
Optical Ethernet	2 x 100Base-LX10	-	-	-	-	-
CAN	2 x CAN 2.0 B	3 x CAN 2.0 B	6 x CAN 2.0 B	6 x CAN 2.0 B	6 x CAN 2.0 B	3 x CAN 2.0 B
FlexRay	-	-	-	-	2.1 RevA, A and B Channel	-
USB Host	2 x 2.0 Hi Speed	1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed	
USB Device	1 x 2.0 Hi Speed					
USB OTG (Host/Device)		1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed	1 x 2.0 Hi-Speed
RS-232	1	2				
RS-485	1	1				
RS-422	1					
J1708	1	1				
LIN			2	2	2	2
K-Line	1					
L-Line	1					
5V Out (500mA max)		1	1	1	1	
CPU Audio		Yes	Yes	Yes	Yes	
Modem Audio		Yes				
Graphics Port		DVI-I (1080p)				
Dual Display Support		Yes				
Internt batteri		No	Optional	Optional	Optional	No
Super Capacitor		No	Yes	Yes	Yes	Yes
LED	1 x biLED, 4 x LED	4 x biLED, 1 x LED	5 x biLED	5 x biLED	5 x biLED	4 x biLED
Buzzer			Yes	Yes	Yes	
Current Consumption	200mA - 800mA @ 24V	200 mA - 800 mA @ 24 V	160 mA - 400 mA @ 24 V	160 mA - 400 mA @ 24 V	160 mA - 400 mA @ 24 V	52 mA - 300 mA @ 24 V
Current consumption, sleep (typical)	150 mW	12 mA @ 24 V	8.2 mA @ 24 V	24 mA @ 24 V	24 mA @ 24 V	7 mA @ 24 V