

HMI40

New HMIs ARM Cortex A9 multicore processor families

HMI40 - Highlights



PREMIUM HMI 5



- **Premium HMI 5** BASIC and ADVANCED WinCE runtime versions
- **ASEM UBIQUITY Pro** WinCE remote assistance software
- **Windows Embedded Compact 7 Pro** operating system with Datalight Reliance Nitro file system
- NXP® **ARM Cortex A9 i.MX6 1,00 GHz Dual Lite** processor
- Front panel available in three variants: **aluminium**, **aluminium TrueFlat** with resistive touchscreen and **aluminium TrueFlat** with **P-CAP Multitouch**
- **Wide range of TFT LCD 16 mln colors and LED backlight displays**
 - 4:3 aspect ratio: 8.4", 10.4", 12.1", 15"
 - wide aspect ratio: 7", 10.1", 12.1", 15.6"
- **Smart Memory System**
 - 1 GB RAM DDR3
 - 4 GB eMMC (SSD Pseudo-SLC)
 - 1 MicroSD slot
- **Interfaces**
 - 2 x Ethernet 10/100/1000 Mbps
 - 2 x USB 2.0
 - 1 x RS232/422/485 (DB15M) with MPI protocol support
 - Optional:
 - 1 x RS485 isolated (DB9M)
 - WiFi b/g/n and/or modem (3G or 4G)
- **Isolated 24V DC Power supply** input

HMI40 – Technical features



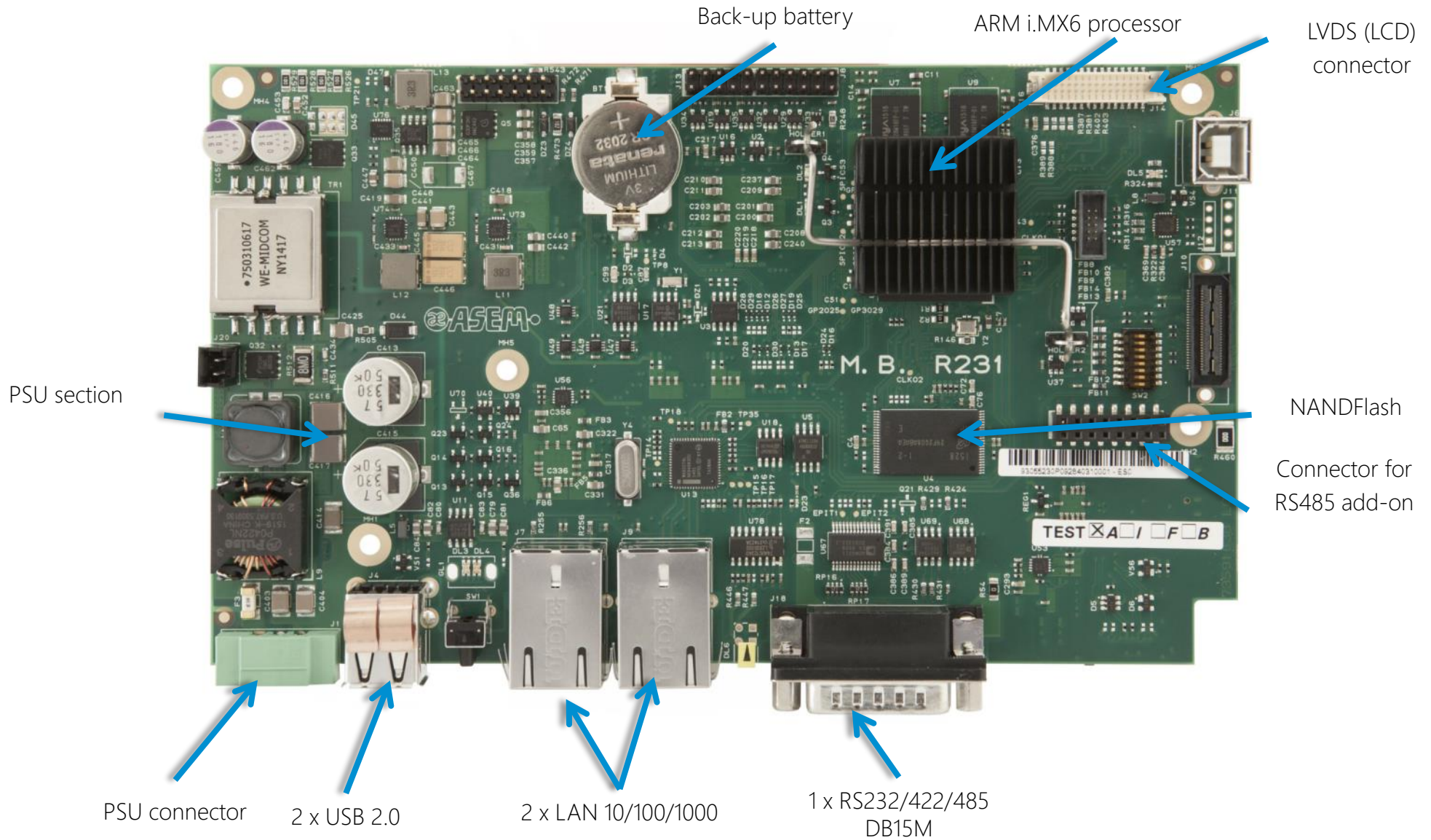
	HMI40	HMI40-TF	HMI40-TFM
HMI Software	PREMIUM HMI 5 BASIC ADVANCED		
Remote Assistance SW	ASEM UBIQUITY PRO		
O.S.	Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system		
LED backlight TFT LCD	7" W - 800x480 8.4" - 800x600 10.1" W - 1280x800 10.4" - 800x600 12.1" - 800x600 12.1" - 1024x768 12.1" W - 1280x800 15.0" - 1024x768 15.6" W - 1366x768		7" W - 800x480 10.1" W - 1280x800 12.1" W - 1280x800 15.6" W - 1366x768
TOUCH-SCREEN	Resistive 4 wires for 7" Resistive 5 wires for other sizes		P-CAP Multitouch
FRONT PANEL	Aluminium	TrueFlat Aluminium	True Flat Aluminium Multitouch
PROTECTION GRADE	IP66, Enclosure type 4x - frontal		
PROCESSOR	ARM Cortex A9 processor i.MX6 Dual Lite 1 GHz		
SYSTEM MEMORY - RAM	1 GB with DDR3 chips soldered		
MASS STORAGE	4 GB eMMC (Solid State Disk Pseudo-SLC) 1 x Slot MicroSD		
LAN	2 x Ethernet 10/100/1000 Mbps (RJ45)		
USB	2 x USB 2.0 (Type-A, rear)		
SERIAL	1 x RS232/422/485 (DB15M) with MPI support 1 x RS485 (DB9M) without MPI support (optional)		
WIRELESS COMMUNICATION	1 x carrier for WiFi module and/or 3G/4G modem (optional)		
POWER SUPPLY INPUT	24VDC isolated		
OPERATING TEMPERATURE	0° - 50°C		
APPROVALS	CE, cULus LISTED (61010), ATEX zone 22, II 3 D	CE, cULus LISTED (61010), ATEX zone 2/22, II 3 G D	

HMI40 – Wireless communication modules (optional)

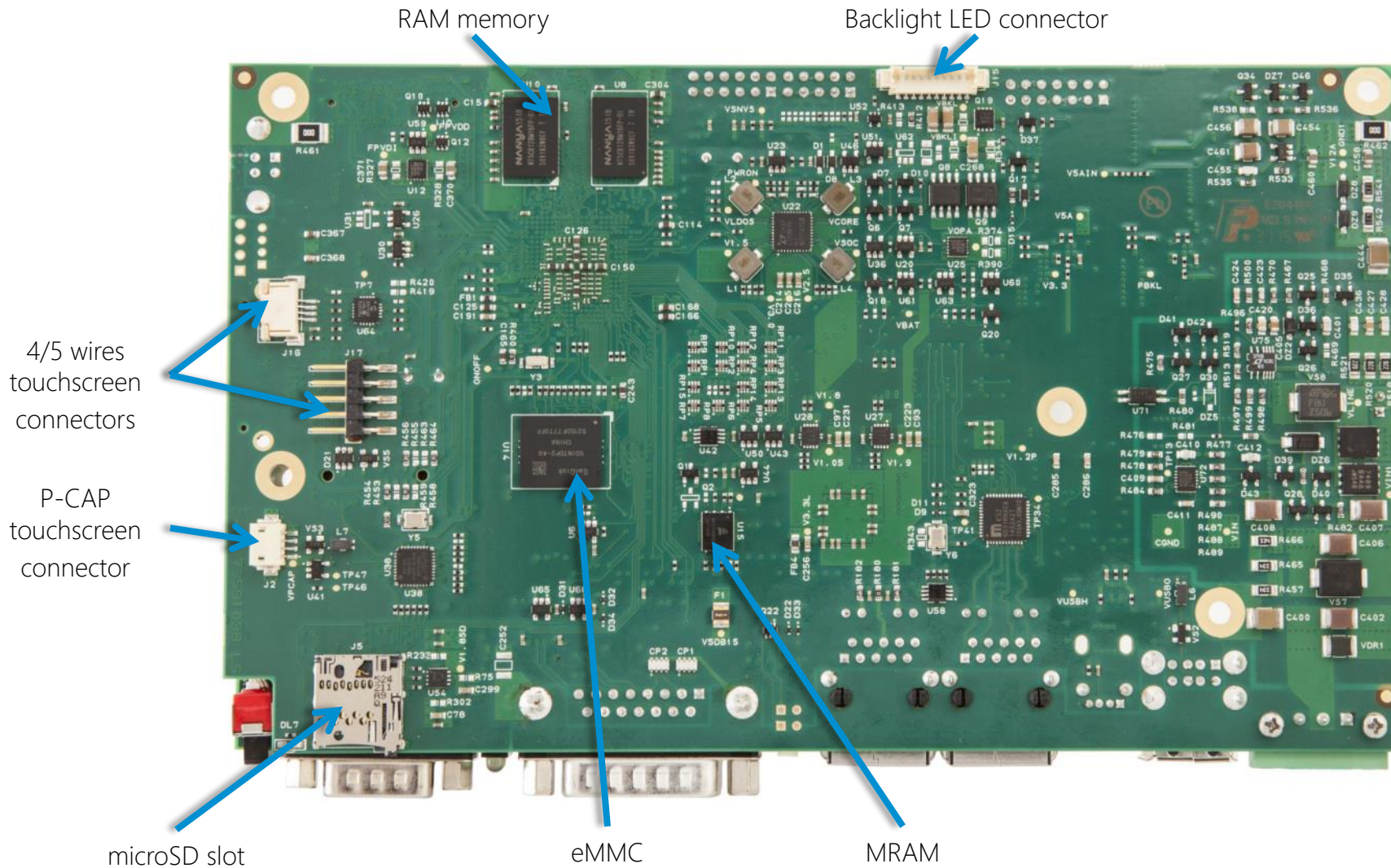


		HMI40 / HMI40-TF / HMI40-TFM
WiFi Module	Type	Host Controller Interface (HCI) with USB 2.0 interface
	Standard	WiFi - IEEE 802.11b/g/n ▪ 2.400GHz Data rate up to 150Mbps
	Features	Client
	Security	WEPTKIP, AES, WPA, WPA2
	Sensitivity Rx	11Mbps: -80dBm@8% / 54Mbps: -70dBm@10% / 130Mbps: 672dBm@10%
	Antenna	1 x RP-SMA-F connector ▪ antenna not included
Modem 3G	Type	modem 2G/3G/3G+ EDGE/HSPA quadri band up to 5,76Mbps upload / 21,6Mbps download
	Bands	UMTS/HSPA+: B1/B2/B5 ▪ GSM/GPRS/EDGE: 850/900/1800/1900 MHz
	Antenna	1 x SMA-F connector ▪ antenna not included
Modem 4G/LTE	Type	modem 2G/3G/4G LTE pentaband up to 50Mbps upload / 100Mbps download
	Bands	FDD-LTE: B1/B3/B7/B8/B20 ▪ TDD-LTE: B38/B40 ▪ UMTS/HSPA+: B1/B8 ▪ GSM/GPRS/EDGE: 900/1800 MHz
	Antenna	1 x SMA-F connector ▪ antenna not included
Modem 4G/LTE – AM	Type	modem 3G/4G LTE quadri band up to 50Mbps upload / 100Mbps download
	Bands	FDD-LTE: B2/B4/B5/B17 ▪ UMTS/HSPA+: B2/B5
	Antenna	1 x SMA-F connector ▪ antenna not included

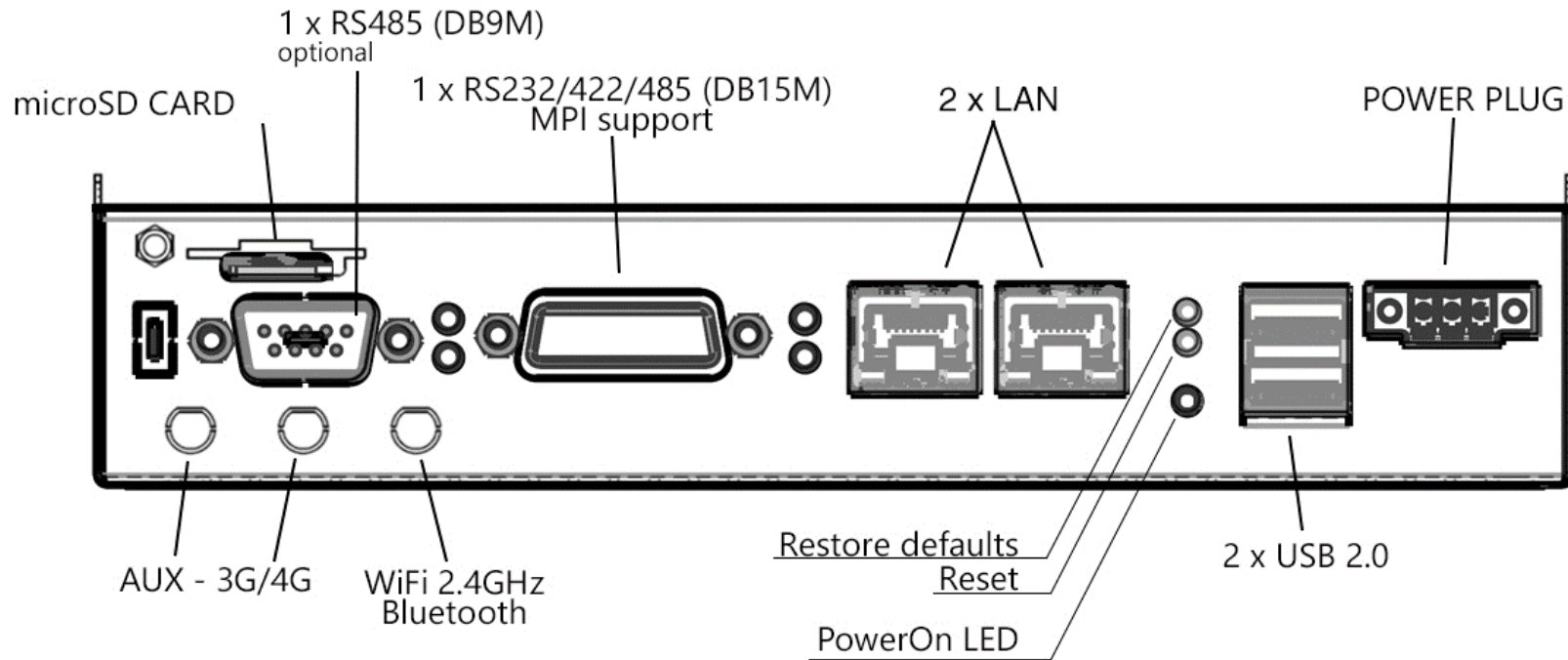
HMI40 - Motherboard R231, top



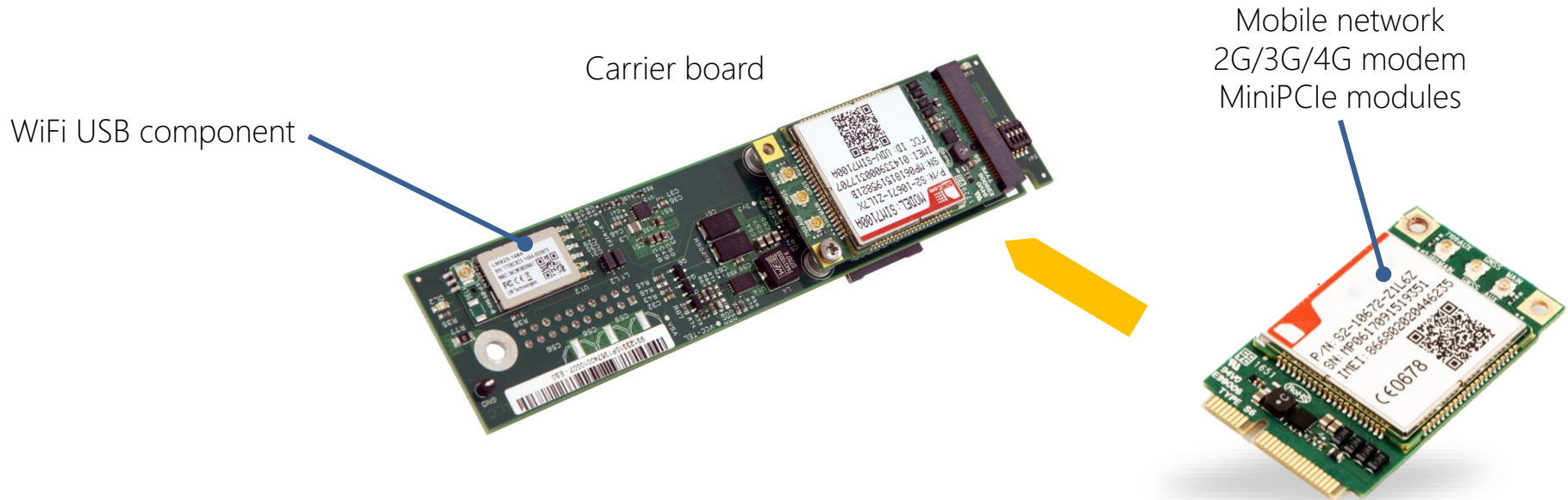
HMI40 - Motherboard R231, bottom



HMI40 – Interfaces & Connectors



HMI40 – Wireless communication modules (optional)



		3G	4G/LTE	4G/LTE-AM
3G	Europe	✓	✓	-
	North/Latin America	✓	-	✓
	Asia	✓	✓	-
	Africa&Oceania	✓	✓	-
4G/LTE	Europe		✓	-
	North America		-	✓
	Latin America	n.a.	✓	✓
	Asia		✓	-
	Africa&Oceania		✓	-

HMI40 - Long term availability



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