

**INDUSTRIAL COMPUTER / EMBEDDED SYSTEM**

Arrakis-pico-MK3 - Fanless System

Basic & LTE Version



	Arrakis-pico-MK3	Arrakis-pico-MK3-LTE
<b>GENERAL DATA</b>		
Version	<b>Basis Version</b>	<b>LTE Version</b>
Type	Industrial Computer	Industrial Computer
Series	Arrakis	Arrakis
Power button	Yes	Yes
Cooling	Fanless	Fanless
<b>CPU</b>		
CPU type	Intel® Atom™ x5-E3940	Intel® Atom™ x5-E3940
CPU generation	Apollo Lake	Apollo Lake
CPU family	Intel® Atom™	Intel® Atom™
CPU socket	Soldered	Soldered
CPU frequency	1.6 GHz	1.6 GHz
CPU frequency max.	1.8 GHz	1.8 GHz
CPU cores	4	4
L2 cache	2 MB	2 MB
Hyperthreading	No	No
Embedded	Yes	Yes

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MEMORY / RAM		
Socket type	Soldered	Soldered
Number of slots	1	1
Storage type	LPDDR4	LPDDR4
ECC	No	No
Frequency	2133 MHz	2133 MHz
Voltage	1.2 V	1.2 V
Capacity	8 GB	8 GB
STORAGE		
Slot m.2	1x 3042 (USB 3.0/2.0) SATA	1x 3042 (USB 3.0/2.0) SATA
Slot NVMe (mPCIe)	1x 2242 (PCIe x2 /USB 2.0)	1x 2242 (PCIe x2 /USB 2.0)
Interface for bays	SATA 3.0	SATA 3.0
CELLULAR CHARACTERISTICS		
Chipset	-	EM05-E
Cellular standard	-	LTE Cat. 4
Bands UMTS	-	B1/B8
Bands LTE	-	B1/B3/B7/B8/B20/B28/B38
Download (max.)	-	150 Mbit/s
Upload (max.)	-	50 Mbit/s
LTE Connector	-	2x SMA (f)
GPS CHARACTERISTICS		
GNSS services	-	Optional
GRAPHICS		
Graphic type	On board integriert	On board integriert
Graphic chip (GPU)	Intel® HD Graphics 500	Intel® HD Graphics 500
Graphic memory	Shared	Shared
Direct X Level	Level 12 (12_1)	Level 12 (12_1)
OpenGL	4.6	4.6
HDMI	1	1
ADDITIONAL INTERFACES		
RS-232/422/485	RS232 (TX/RX/GND), RS485 auto-flow control on 8-pin Terminal Block	RS232 (TX/RX/GND), RS485 auto-flow control on 8-pin Terminal Block
USB 2.0	1	1
USB 3.0	3	3
Digital Input	1	1
Digital Output	1	1
Other	1x SIM Card Slot Nano (external)	1x SIM Card Slot Nano (external)

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ETHERNET		
Connector TX	RJ45	RJ45
10/100/1000BaseTX ports	3	3
OTHERS		
Watchdog Timer	Yes, 1 - 254 seconds	Yes, 1 - 254 seconds
TPM 2.0	Yes	Yes
POWER SUPPLY		
Power supply V DC	12 - 24 V	12 - 24 V
Power supply connector	4-Pin Terminal Block with Power Switch function	4-Pin Terminal Block with Power Switch function
PHYSICAL CHARACTERISTICS		
Housing material	Aluminium/Steel	Aluminium/Steel
Housing color	Silver	Silver
Dimensions (W x H x D)	110 x 90 x 30 mm	110 x 90 x 30 mm
Weight	500 g	500 g
Mounting	DIN Rail/Wall Mount	DIN Rail/Wall Mount
ENVIRONMENTAL		
Operating temperature range	-20 - +60 °C	-20 - +60 °C
Humidity	5 - 95 %	5 - 95 %
APPROVALS		
CE	Yes	Yes
FCC	Yes	Yes
RoHS	Yes	Yes

