

owa450 Variants

THE PERFECT LINUX IoT GATEWAY TO CONTROL AND MONITOR YOUR INDUSTRIAL MACHINES AND VEHICLES

FEATURES	owa450/A(P)	owa450/A+(P)	owa450/I(P)
Processor/MHz	Cortex A8/800MHz	Cortex A8/800MHz	Cortex A8/800MHz
Linux (OS)	4.19.94 (Debian 10)	4.19.94 (Debian 10)	4.19.94 (Debian 10)
RAM	512MB DDR3 (Up to 1 GB)	512MB DDR3 (Up to 1 GB)	512MB DDR3 (Up to 1 GB)
FLASH	1GB NAND SLC (Up to 2 GB)	1GB NAND SLC (Up to 2 GB)	1GB NAND SLC (Up to 2 GB)
MICRO SD	YES	YES	YES
ACCELEROMETER	YES	YES	OPTIONAL
GNSS	UBLOX	UBLOX	
LTE CAT1 GLOBAL	GEMALTO	GEMALTO	GEMALTO
DIGITAL I/O ^{1,2,3,4, 8}	10	8	10
EXPANSION DIGITAL INPUTS		3	
ANALOG INPUTS ¹	4	4	4
IBUTTON ²	YES	YES	YES
RS232	3	3	3
RS485	YES	YES	YES
2 nd RS485 ^{7, 8}		OPTIONAL	OPTIONAL
CAN	YES	YES	OPTIONAL
CAN 2 ⁴	OPTIONAL	YES	
CAN 3 ⁶		YES	
CAN 4 ^{5, 6}		YES	
KLINE ^{3, 8}	YES	YES	
KLINE 2 ^{3, 8}	OPTIONAL	OPTIONAL	
AUDIO CODEC		OPTIONAL	
USB	YES	YES	YES
ETHERNET (RJ45)	YES	YES	YES
ETHERNET (M12)	OPTIONAL	OPTIONAL	
ANTENNA CONNECTOR	FAKRA	FAKRA	SMA
24 PIN CONNECTOR	YES	YES	YES
14 PIN CONNECTOR		YES	

OPTIONAL FEATURES			
9 AXIS MEMS (ACC+GYRO+MAG) ⁵	OPTIONAL	OPTIONAL	
TPM 2.0	OPTIONAL	OPTIONAL	OPTIONAL
WIFI + BT4.2	OPTIONAL	OPTIONAL	OPTIONAL
OPTIONAL BATTERY 2000mAh	OPTIONAL	OPTIONAL	OPTIONAL
MFF2 SIM CARD	OPTIONAL	OPTIONAL	OPTIONAL

Notes:

1. Analog inputs shared with Digital I/O pins 0 to 3
2. iButton multiplexed with DIO6
3. KLINE shared pin with DIO-7. RS485 and KLINEs cannot work at the same time (SW selected). 2nd KLINE will share pin with DIO-5 and remove UART 1 TXD1/RXD1
4. 2nd CAN removes DIO-2 and DIO-4
5. CAN4 not compatible with 9 Axis MEMS
6. CAN3 and CAN4 support CAN FD from revision R1B (March 2020)
7. 2nd RS485 in OWA450A+ removes UART5.
8. In the OWA450I, if the 2nd RS485 is in the main connector it will remove UART5, DIO5/Kline2 and DIO7/Kline1. If it is in the expansion connector, it will remove UART5.