




# owa3x products

POWERFUL OPEN M2M PLATFORM SUITABLE FOR THE WIRELESS APPLICATION YOU NEED TO DEVELOP.

FEATURES			
PROCESSOR / MHz	ARM9 / 400MHz	ARM9 / 400MHz	ARM9 / 400MHz
LINUX OS	2.6.36	2.6.36	2.6.36
RAM	32MB / 64MB	32MB / 64MB	32MB / 64MB
FLASH	64MB	64MB	64MB
MICRO SD <sup>9</sup>	YES	YES	YES
GNSS	U-BLOX	U-BLOX	
GPRS / GSM	GEMALTO	GEMALTO	GEMALTO
DIGITAL INPUTS / OUTPUTS	10	10	10
ANALOG INPUTS <sup>1,2</sup>	4	4	4
DALLAS IBUTTON <sup>4</sup>		YES	
RS232 <sup>8</sup>	3	3	3
RS485	1	1	1
ACCELEROMETER	YES	YES	OPTION
CAN	OPTION	YES	
KLINE <sup>5</sup>		YES	
AUDIO <sup>3</sup>	YES	YES	OPTION
GSM / GPS CONNECTOR TYPE	FAKRA	FAKRA	SMA (GSM)
2 USB HOSTS <sup>6</sup>		YES	OPTION
ETHERNET		YES	OPTION
OPTIONAL BATTERY	1800mAh	1800mAh	1800mAh
PROTECTION	IP30	IP30	IP30

OPTIONAL FEATURES			
I/Os EXPANSION BOARD <sup>7</sup>		OPTION	OPTION
2 <sup>nd</sup> CAN <sup>10</sup>		OPTION	
3 <sup>rd</sup> CAN <sup>11</sup>		OPTION	
2 <sup>nd</sup> KLINE <sup>5</sup>		OPTION	
GYROSCOPE		OPTION	
BLUETOOTH <sup>8</sup>		OPTION	OPTION
BLE <sup>6</sup>		OPTION	OPTION
WIFI <sup>9</sup>		OPTION	OPTION
HSPA / UMTS <sup>3,6,2</sup>	OPTION	OPTION	OPTION
2 <sup>nd</sup> RS485 <sup>12</sup>			OPTION
CODEC <sup>2</sup>	OPTION	OPTION	OPTION

Notes:

1. Analog inputs shared with Digital I/O pins 0 to 3.
2. Analog input 1 not available with CODEC.
3. Audio for HSPA/UMTS option requires CODEC.
4. IBUTTON shared pin with DIO-6
5. KLINE shared pin with DIO-7. KLINE and RS485 are not compatible. 2<sup>nd</sup> KLINE will share pin with DIO-5 and use UART 1 TXD1/RXD1 (not compatible with BT).
6. Only 1 USB is available with BLE or HSPA options, and there will not be USB when both BLE and HSPA.
7. Expansion Board with 16 Digital Inputs (50V max); 2 Analog Outputs 12bits (0-5.12V 1.25mV per bit); 8 Analog Inputs 12 bits (0-5.12V 1.25mV per bit); or 0-30.72V 7.5mV per bit; 4 GND (2 Analog); 2 Vout (4.5V) power outputs 100mA max. When running from battery back-up Vout is 3.7V 100 mA max
8. BLUETOOTH option includes 64MB RAM. BLUETOOTH option uses UART 1 TXD1/RXD1 won't be available externally or for 2<sup>nd</sup> KLINE.
9. WIFI option includes 64MB RAM. In WIFI units microSD card cannot be used.
10. 2<sup>nd</sup> CAN removes DIO-2 and DIO-4
11. 3<sup>rd</sup> CAN removes TXD-1/RXD-1 from 24 pin connector.
12. 2<sup>nd</sup> RS485 removes TXD-3/RXD-3 uart, DIO-7(KLINE) and DIO-5(KLINE2).