

# Introducing the PIC24FJ128GB204 PIM

## Overview

The PIC24FJ128GB204 PIM is designed to demonstrate the capabilities of the PIC24FJ128GB204 family using the Explorer 16 Demonstration Board kit and the PICtail™ Plus daughter boards. The PIC24FJ128GB204 is a 44-pin device with USB On-The-Go (OTG), XLP Technology and Peripheral Pin Select (PPS) features. The PPS feature of this PIC24F family allows many of the digital peripherals on the part to be remapped to use any of a number of pins on the device. This allows for significant improvements in ease of design and helps to reduce cost by allowing for the smallest possible size devices to be used. The following two tables detail the pin mapping of the 44-pin device to the 100-pin PIM header.

- The 44-pin to 100-pin table (Table 1) lists the device pins and shows what functions are mapped to each pin. This table is most useful for viewing multiplexing conflicts which prevent some functions from being used simultaneously.
- The 100-pin to 44-pin table (Table 2) shows a listing of the Explorer 16 functions and what device pin is mapped to that function.

## PIC24FJ128GB204 PIM Features

Due to the flexibility allowed by the PPS feature, the 44-pin device is capable of performing all of the base functions on the 100-pin Explorer 16 board. In addition, the PIM is compatible with most of the PICtail Plus daughter boards for the Explorer 16, including the USB PICtail Plus Daughter Board (AC164131).

## PIC24FJ128GB204 PIM Limitations

The result of multiplexing the functions from a 44-pin part to the 100-pin PIM header is that many of the functions cannot be used simultaneously. Explorer 16 board LEDs are multiplexed on switch and PMP lines, which means they will not always be usable if these functions are in use. The Explorer 16 potentiometer and temperature sensor cannot be used with PMP, and are selectable through Jumpers J6 and J7. Smart Card cannot be used along with PMP, and is selectable through Jumpers J2 and J3. I<sup>2</sup>S and USB cannot be used simultaneously, and the function is selectable through Jumper J5. The programming lines, PGC1/PGD1, cannot be used with the USB and are selectable through Jumpers J8 and J9. The PICtail Plus daughter boards have similar limitations. All daughter boards will work by themselves, however, most PICtail Plus daughter boards will not work if two are installed simultaneously. Additionally, a PICtail Plus daughter board may not work with all of the default Explorer 16 functionality. If a PICtail Plus daughter board is designed to work with a Microchip stack, the stack will need to be modified to function with the PIM pinout and PPS feature. Please check the pinouts of the components you are using to ensure compatibility before attempting to use multiple peripheral functions or more than one PICtail Plus daughter board at the same time.

## Tips for Using the PIC24FJ128GB204 PIM

- The Explorer 16 LEDs are multiplexed with a number of functions and so may not be useful in some situations. Make sure to check the mapping tables for conflicts.
- The PIC24FJ128GB204 port pins are not mapped to the corresponding port I/O on the Explorer 16. Make sure to use the following pinout tables as a cross reference to ensure you use the correct device pin in your application.
- Many of the peripherals used by the Explorer 16 and PICtail Plus daughter boards are implemented on pins with analog functionality. These peripherals may not conflict with analog features on other PIC24F PIMs. Make sure to add any necessary code to override this analog functionality in your application or in the stack application you are using.
- Some Explorer 16 boards have a 5V LCD. If you are using a function which is multiplexed onto the PMP pins on one of these boards, it may be necessary to manually drive the pins initially. The pins must be driven in order to ensure the bus is driven to either VDD or VSS, instead of floating at 5V.
- Jumper Settings:**
  - Jumper J1 Pins (1-2) select the USB OTG ID Pin (USBID); Pins (2-3) select the I<sup>2</sup>S bit Clock Line (I2S\_SCK).
  - Jumper J2 Pins (1-2) select PMP Data<5> (PMD5); Pins (2-3) select the Smart Card's RX Pin (SC\_RX).
  - Jumper J3 Pins (1-2) select the PMP Read Strobe (PMRD); Pins (2-3) select the Smart Card's TX Pin (SC\_TX).
  - Jumper J4 Pins (1-2) select the Explorer 16 Serial EEPROM CS (EE\_CS); Pins (2-3) select the Device PORTA<8> Connection to Explorer 16 PORTD<1> (RD1).
  - Jumper J5 Pins (1-2) select the I<sup>2</sup>S Channel Select Line (I2S\_SS); Pins (2-3) select the USB Voltage and PMP Data<6> (Vbus/PMD6).
  - Jumper J6 Pins (1-2) select the PMP Chip Select 2 Strobe (PMCS2); Pins (2-3) select the Explorer 16 Potentiometer Function (POT).
  - Jumper J7 Pins (1-2) select the PMP Byte Enable 1 Strobe (PMBE1); Pins (2-3) select the Explorer 16 Analog Temperature Sensor (TEMP).
  - Jumper J8 Pins (1-2) select the Programming Clock 2 and USB Differential Minus Line (PGC2/D-); Pins (2-3) select the Programming Clock 1 (PGC1).
  - Jumper J9 Pins (1-2) select the Programming Data Line 2 and USB Differential Plus Line (PGD2/D+); Pins (2-3) select the Programming Data Line 1 (PGD1).
- It is not possible to use the Explorer 16 LCD and USB when debugging on this PIM. When debugging and using the LCD on the Explorer 16, connect Jumper J8 (2-3) = PGC1 and J9 (2-3) = PGD1. When debugging and using USB, connect Jumper J8 (1-2) = PGC2/D- and J9 (1-2) = PGD2/D+.
- Many PICtail Plus daughter boards use the EEPROM, SPI and UART2 (which has the RS-232 port functionality). These functions are mapped to ensure that they can be used together to allow support for these boards.

**Table 1: 44-Pin to 100-Pin Pinout**

Device Pin #	PIC24FJ128GB204 Pinout	Jumper	PIM Pin #	PIM Func #1	Jumper	PIM Pin #	PIM Func #2	Jumper	PIM Pin #	PIM Func #3	Jumper	PIM Pin #	PIM Func #4
1	C1INC/C2INC/C3INC/RP9/SDA1/T1CK/CTED4/PMD3/CN21/RB9		56	RG3/SDA1 <sup>(1)</sup>		99	RE3/PMD3						
2	RP22/PMA1/PMALH/CN18/RC6	J5-I2S_SS	1	RG15/Vbus		23	RB2/SS1/AN2 <sup>(1)</sup>		43	RB14/PMA1		92	RA7
3	RP23/PMA0/PMALL/CN17/RC7		39	RE13/UZRTS <sup>(1)</sup>		44	RB15/PMA0		77	RD2			
4	RP24/PMA5/CN20/RC8		10	RG6/PMA5/SCK2		48	RD15/UTRTS <sup>(1)</sup>						
5	RP25/CTED7/PMA6/CN19/RC9		29	RA10/PMA6		50	RF5/PMA8/UZTX		66	RA14/INT3 <sup>(1)</sup>		72	RD9 <sup>(1)</sup>
6	VBAT		86	VBAT									
7	VCAP		85	VCAP									
8	RP10/CTED11/CN16/PGD2/D+/RB10	J9-PGD2/D+	27	RB7/AN7/FGD/D+		90	RG0						
9	REF1/RP11/CTED9/CN15/PGC2/D-/RB11	J8-PGC2/D-	26	RB6/AN6/PGC/D-		89	RG1						
10	VUSBV3		16	VDD									
11	AN7/C1INC/REF0/RP13/CTPLS/PMRD/CN13/RB13	J3-SC_TX	51	RF3/UTX	J3-PMRD	82	RD5/PMRD						
12	TMS/PMA2/PMALL/CN36/RA10		14	RG9/PMA2/SS2		17	RA0/TMS		69	RD9		83	RD6
13	TCK/PMA7/CN33/RA7		28	RA9/PMA7		38	RA1/TCK		80	RD13			
14	CVREF/AN6/C3INB/RP14/RTCC/CTED5/CN12/RB14		40	RF12/UZCTS		68	RD8						
15	AN3/C3INA/RP15/T3CK/T2CK/CTED6/PMA14/CS1/CN11/PMCS/PMCS1/RB15		7	RC2 <sup>(1)</sup>		33	RB9/AN9 <sup>(1)</sup>		55	RF6/SCK1			
16	AVSS/VSS		31	AVSS									
17	AVDD		30	AVDD									
18	MCLR		13	MCLR									
19	CVREF+/VREF+/ANO/C3INC/RP5/ASDA1/CTED1/CN2/PMD7/PGD3/RA0		5	RE7/PMD7		25	RB9/AN9 <sup>(1)</sup>						
20	CVREF-/VREF-/ANI/C3INB/RP6/ASCL1/CTED2/CN3/PGC3/RA1		24	RB1/AN1 <sup>(1)</sup>									
21	AN2/CTM/C2INB/RP0/CN4/PGD1/HLDIN/PMDDIRB0	J9-PGD1	27	RB7/AN7/FGD/D+		93	RE0/PMD0						
22	AN3/C2INA/RP1/CTED12/CN5/PMD1/PGC1/RB1	J8-PGC1	26	RB6/AN6/PGC/D-		94	RE1/PMD1						
23	ANA/C1INB/RP2/SDA2/T5CK/T4CK/CTED13/CN6/PMD2/RB2	19-REINT2 <sup>(1)</sup>	19	RE9/INT2 <sup>(1)</sup>		59	RA3/SDA2		87	RF0 <sup>(1)</sup>		98	RE2/PMD2
24	AN5/C1INA/RP3/SCL2/CTED8/CN7/PMWR/RB3		47	RD14/UTCTS <sup>(1)</sup>		58	RA2/SCL2		81	RD4/PMWR		88	RF1 <sup>(1)</sup>
25	AN10/RP16/PMBE1/CN8/RC0	J7-TEMP	21	RB4/AN4	J7-PMBE1	34	RB10/PMA13		53	RF8/SDO1			
26	AN11/RP17/CN9/RC1	J6-POT	20	RB5/AN5		54	RF7/SD1	J6-PMCS2	70	RD10/PMCS2			
27	AN12/RP18/PMACK1/CN10/RC2		6	RC1 <sup>(1)</sup>		18	RE8/INT1 <sup>(1)</sup>		32	RB8/AN8 <sup>(1)</sup>			
28	VDD		46	VDD		62	VDD						
29	VSS		15	VSS		45	VSS		75	VSS			
30	OSCI/C1IND/CLK1/PMCS1/CN30/RA2		63	OSC1		71	RD0 <sup>(1)</sup>						
31	OSCO/C2IND/CLK0/CN29/RA3		64	OSC2									
32	TDO/PMA8/CN34/RA8		61	RA5/TDO	J4-RD1	76	RD1	J4-EE_CS	79	RD12			
33	SOSCI/CN1/RP4/RB4			XT on PIM									
34	SOSCO/SCL1/CN0/RA4			XT on PIM									
35	TDI/PMA9/CN35/RA9		22	RB3/AN3 <sup>(1)</sup>		60	RA4/TDI		84	RD7		96	RG12
36	RP19/PMBE0/CN28/RC3		49	RF4/PMA9/UZRX		67	RA15/INT4 <sup>(1)</sup>		78	RD3/PMBE	J1-I2S_SCK	95	RG14/USBID
37	RP20/PMA4/CN25/RC4		11	PMA4/SDI2		96	RG12						
38	RP21/PMA3/CN26/RC5		12	PMA3/SDO2		91	RA6		97	RG13			
39	VSS		15	VSS		45	VSS		75	VSS			
40	VDD		46	VDD		62	VDD						
41	CN27/USBID/RB5	J1-USBID	95	RG14/USBID									
42	PMB6/CN24/Vbus/RB6	J5-Vbus/PMD6	1	RG15/Vbus		4	RE6/PMD6						
43	RP7/CTED3/INT0/CN23/PMD5/RB7	J2-PMD5	3	RE5/PMD5	J2-SC_RX	52	RF2/UTRX						
44	RP8/SCL1/CTED10/PMD4/CN22/USBOEN/RB8		57	RG2/SCL1 <sup>(1)</sup>		100	RE4/PMD4						

Note 1: This pin is a common or required signal for PICtail™ Plus daughter boards.

**Table 2: 100-Pin to 44-Pin Pinout**

Exp 16 Pin #	PIM Function	Jumper	Device Pin #	PIC24FJ128GB204 Pinout
1	RG15/Vbus	J5-I2S_SS	2	RP22/PMA1/PMALH/CN18/RC6
		J5-Vbus/PMD6	42	PMD6/CN24/Vbus/RB6
2	Vdd			
3	RE5/PMD5	J2-PMD5	43	RP7/CTED3/INT0/CN23/PMD5/RB7
4	RE6/PMD6		42	PMD6/CN24/Vbus/RB6
5	RE7/PMD7		19	CVREF+/VREF+/AN0/C3INC/RP5/ASDA1/CTED1/CN2/PMD7/PGD3/RA0
6	RC1 <sup>(1)</sup>		27	AN12/RP18/PMACK1/CN10/RC2
7	RC2 <sup>(1)</sup>		15	AN9/C3INA/RP15/T3CK/T2CK/CTED6/PMA14/CS1/CN11/PMCS/PMCS1/RB15
8	RC3			
9	RC4			
10	RG6/PMA5/SCK2		4	RP24/PMA5/CN20/RC8
11	PMA4/SDI2		37	RP20/PMA4/CN25/RC4
12	PMA3/SDO2		38	RP21/PMA3/CN26/RC5
13	MCLR		18	MCLR
14	RG9/PMA2/SS2		12	TMS/PMA2/PMALU/CN36/RA10
15	Vss		29	Vss
			39	Vss
16	Vdd		10	VUSB3v3
17	RA0/TMS		12	TMS/PMA2/PMALU/CN36/RA10
18	RE8/INT1 <sup>(1)</sup>		27	AN12/RP18/PMACK1/CN10/RC2
19	RE9/INT2 <sup>(1)</sup>		23	AN4/C1INB/RP2/SDA2/T5CK/T4CK/CTED13/CN6/PMD2/RB2
20	RB5/AN5	J6-POT	26	AN11/RP17/CN9/RC1
21	RB4/AN4	J7-TEMP	25	AN10/RP16/PMBE1/CN8/RC0
22	RB3/AN3 <sup>(1)</sup>		35	TDI/PMA9/CN35/RA9
23	RB2/SS1/AN2 <sup>(1)</sup>		2	RP22/PMA1/PMALH/CN18/RC6
24	RB1/AN1 <sup>(1)</sup>		20	CVREF-/VREF-/AN1/C3IND/RP6/ASCL1/CTED2/CN3/PGC3/RA1
25	RB0/AN0 <sup>(1)</sup>		19	CVREF+/VREF+/AN0/C3INC/RP5/ASDA1/CTED1/CN2/PMD7/PGD3/RA0
26	RB6/AN6/PGC/D-	J8-PGC2/D-	9	REF1/RP11/CTED9/CN15/PGC2/D-/RB11
		J8-PGC1	22	AN3/C2INA/RP1/CTED12/CN5/PMD1/PGC1/RB1
27	RB7/AN7/PGD/D+	J9-PGD2/D+	8	RP10/CTED11/CN16/PGD2/D+/RB10
		J9-PGD1	21	AN2/CTCMP/C2INB/RP0/CN4/PGD1/HLVDIN/PMD0/RB0
28	RA9/PMA7		13	TCK/PMA7/CN33/RA7
29	RA10/PMA6		5	RP25/CTED7/PMA6/CN19/RC9
30	AVdd		17	AVdd
31	AVss		16	AVss/Vss
32	RB8/AN8 <sup>(1)</sup>		27	AN12/RP18/PMACK1/CN10/RC2
33	RB9/AN9 <sup>(1)</sup>		15	AN9/C3INA/RP15/T3CK/T2CK/CTED6/PMA14/CS1/CN11/PMCS/PMCS1/RB1
34	RB10/PMA13	J7-PMBE1	25	AN10/RP16/PMBE1/CN8/RC0
35	RB11/PMA12			
36	Vss			
37	Vdd			
38	RA1/TCK		13	TCK/PMA7/CN33/RA7
39	RF13/U2RTS <sup>(1)</sup>		3	RP23/PMA0/PMALL/CN17/RC7
40	RF12/U2CTS		14	CVREF-/AN6/C3INB/RP14/RTCC/CTED5/CN12/RB14
41	RB12/PMA11			
42	RB13/PMA10			
43	RB14/PMA1		2	RP22/PMA1/PMALH/CN18/RC6
44	RB15/PMA0		3	RP23/PMA0/PMALL/CN17/RC7
45	Vss		29	Vss
			39	Vss
46	Vdd		28	Vdd
			40	Vdd
47	RD14/U1CTS <sup>(1)</sup>		24	AN5/C1INA/RP3/SCL2/CTED8/CN7/PMWR/RB3
48	RD15/U1RTS <sup>(1)</sup>		4	RP24/PMA5/CN20/RC8
49	RF4/PMA9/U2RX		36	RP19/PMBE0/CN28/RC3
50	RF5/PMA8/U2TX		5	RP25/CTED7/PMA6/CN19/RC9

**Note 1:** This pin is a common or required signal for PICtail™ Plus daughter boards.

**Table 2: 100-Pin to 44-Pin Pinout (Continued)**

Exp 16 Pin #	PIM Function	Jumper	Device Pin #	PIC24FJ128GB204 Pinout
51	RF3/U1TX	J3-SC_TX	11	AN7/C1INC/REFO/RP13/CTPLS/PMRD/CN13/RB13
52	RF2/U1RX	J2-SC_RX	43	RP7/CTED3/INT0/CN23/PMD5/RB7
53	RF8/SDO1		25	AN10/RP16/PMBE1/CN8/RC0
54	RF7/SDI1		26	AN11/RP17/CN9/RC1
55	RF6/SCK1		15	AN9/C3INA/RP15/T3CK/T2CK/CTED6/PMA14/CS1/CN11/PMCS/PMCS1/RB1
56	RG3/SDA1 <sup>(1)</sup>		1	C1INC/C2INC/C3INC/RP9/SDA1/T1CK/CTED4/PMD3/CN21/RB9
57	RG2/SCL1 <sup>(1)</sup>		44	RP8/SCL1/CTED10/PMD4/CN22/USBOEN/RB8
58	RA2/SCL2		24	AN5/C1INA/RP3/SCL2/CTED8/CN7/PMWR/RB3
59	RA3/SDA2		23	AN4/C1INB/RP2/SDA2/T5CK/T4CK/CTED13/CN6/PMD2/RB2
60	RA4/TDI		35	TDI/PMA9/CN35/RA9
61	RA5/TDO		32	TDO/PMA8/CN34/RA8
62	Vdd		28	Vdd
			40	Vdd
63	OSC1		30	OSCI/C1IND/CLKI/PMCS1/CN30/RA2
64	OSC2		31	OSCO/C2IND/CLKO/CN29/RA3
65	Vss			
66	RA14/INT3 <sup>(1)</sup>		5	RP25/CTED7/PMA6/CN19/RC9
67	RA15/INT4 <sup>(1)</sup>		36	RP19/PMBE0/CN28/RC3
68	RD8		14	CVREF-/AN6/C3INB/RP14/RTCC/CTED5/CN12/RB14
69	RD9		12	TMS/PMA2/PMALU/CN36/RA10
70	RD10/PMCS2	J6-PMCS2	26	AN11/RP17/CN9/RC1
71	RD11/PMCS1		30	OSCI/C1IND/CLKI/PMCS1/CN30/RA2
72	RD0 <sup>(1)</sup>		5	RP25/CTED7/PMA6/CN19/RC9
73	RC13/SOSCI			
74	RC14/SOSCO			
75	Vss		29	Vss
			39	Vss
76	RD1	J4-RD1	32	TDO/PMA8/CN34/RA8
77	RD2		3	RP23/PMA0/PMALL/CN17/RC7
78	RD3/PMBE		36	RP19/PMBE0/CN28/RC3
79	RD12	J4-EE_CS	32	TDO/PMA8/CN34/RA8
80	RD13		13	TCK/PMA7/CN33/RA7
81	RD4/PMWR		24	AN5/C1INA/RP3/SCL2/CTED8/CN7/PMWR/RB3
82	RD5/PMRD	J3-PMRD	11	AN7/C1INC/REFO/RP13/CTPLS/PMRD/CN13/RB13
83	RD6		12	TMS/PMA2/PMALU/CN36/RA10
84	RD7		35	TDI/PMA9/CN35/RA9
85	VCAP		7	VCAP
86	VBAT		6	VBAT
87	RF0 <sup>(1)</sup>		23	AN4/C1INB/RP2/SDA2/T5CK/T4CK/CTED13/CN6/PMD2/RB2
88	RF1 <sup>(1)</sup>		24	AN5/C1INA/RP3/SCL2/CTED8/CN7/PMWR/RB3
89	RG1		9	REF1/RP11/CTED9/CN15/PGC2/D-/RB11
90	RG0		8	RP10/CTED11/CN16/PGD2/D+/RB10
91	RA6		38	RP21/PMA3/CN26/RC5
92	RA7		2	RP22/PMA1/PMALH/CN18/RC6
93	RE0/PMD0		21	AN2/CTCMP/C2INB/RP0/CN4/PGD1/HLVDIN/PMD0/RB0
94	RE1/PMD1		22	AN3/C2INA/RP1/CTED12/CN5/PMD1/PGC1/RB1
95	RG14/USBID	J1-USBID	41	CN27/USBID/RB5
		J1-I2S_SCK	36	RP19/PMBE0/CN28/RC3
96	RG12		35	TDI/PMA9/CN35/RA9
			37	RP20/PMA4/CN25/RC4
97	RG13		38	RP21/PMA3/CN26/RC5
98	RE2/PMD2		23	AN4/C1INB/RP2/SDA2/T5CK/T4CK/CTED13/CN6/PMD2/RB2
99	RE3/PMD3		1	C1INC/C2INC/C3INC/RP9/SDA1/T1CK/CTED4/PMD3/CN21/RB9
100	RE4/PMD4		44	RP8/SCL1/CTED10/PMD4/CN22/USBOEN/RB8

**Note 1:** This pin is a common or required signal for PICtail™ Plus daughter boards.



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**Americas**

Atlanta - 678-957-9614  
Boston - 774-760-0087  
Chicago - 630-285-0071  
Cleveland - 216-447-0464  
Dallas - 972-818-7423  
Detroit - 248-538-2250  
Indianapolis - 317-773-8323  
Los Angeles - 949-462-9523  
Phoenix - 480-792-7200  
Santa Clara - 408-961-6444  
Toronto - 905-673-0699

**Asia/Pacific**

Australia - Sydney - 61-2-9868-6733  
China - Beijing - 86-10-8569-7000  
China - Chengdu - 86-28-8665-5511  
China - Chongqing - 86-23-8980-9588  
China - Hangzhou - 86-571-2819-3187  
China - Hong Kong SAR - 852-2943-5100  
China - Nanjing - 86-25-8473-2460  
China - Qingdao - 86-532-8502-7355  
China - Shanghai - 86-21-5407-5533  
China - Shenyang - 86-24-2334-2829  
China - Shenzhen - 86-755-8864-2200  
China - Wuhan - 86-27-5980-5300  
China - Xiamen - 86-592-2388138  
China - Xian - 86-29-8833-7252  
China - Zhuhai - 86-756-3210040  
India - Bangalore - 91-80-3090-4444  
India - New Delhi - 91-11-4160-8631  
India - Pune - 91-20-3019-1500  
Japan - Osaka - 81-6-6152-7160  
Japan - Tokyo - 81-3-6880-3770  
Korea - Daegu - 82-53-744-4301  
Korea - Seoul - 82-2-554-7200  
Malaysia - Kuala Lumpur - 60-3-6201-9857  
Malaysia - Penang - 60-4-227-8870  
Philippines - Manila - 63-2-634-9065  
Singapore - 65-6334-8870  
Taiwan - Hsin Chu - 886-3-5778-366  
Taiwan - Kaohsiung - 886-7-213-7828  
Taiwan - Taipei - 886-2-2508-8600  
Thailand - Bangkok - 66-2-694-1351

**Europe**

Austria - Weis - 43-7242-2244-39  
Denmark - Copenhagen - 45-4450-2828  
France - Paris - 33-1-69-53-63-20  
Germany - Munich - 49-89-627-144-0  
Italy - Milan - 39-0331-742611  
Netherlands - Drunen - 31-416-690399  
Spain - Madrid - 34-91-708-08-90  
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## Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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