



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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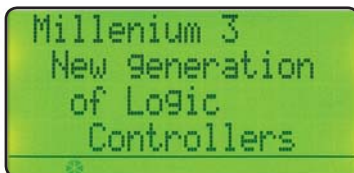
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Millenium³



Actual size

Evolution is a logical process !

3rd generation of logic controllers at the core of your industry

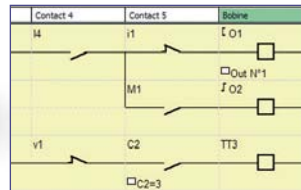
- **More** memory for your applications
- **More** comfort : largest display on the market
- **More** modularity in the number of inputs/outputs
- **More** simplicity for programming



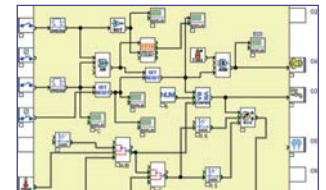
Millenium3



With the new **Millenium 3**, take advantage of evolution in the latest generation of logic controllers.



■ Ladder Language



■ Function Blocks/SFC Language

■ **The best answer to your needs** because of its modularity.

■ **Take your applications still further** with the Millenium 3's extended memory.

■ **Optimise your wiring and installation time** with our self-powered extensions.

■ **Enjoy** the real comfort of the largest display on the market.

■ **Program easily & intuitively** just select the language best adapted to your trade: **Function Blocks/SFC or Ladder.**



The new Millenium 3 range

“Software” with still better performance:

■ **Software innovations:**

- macro editing (grouping function blocks) with password protection,
- new functions making the software even easier to use : split programming windows...

■ **Functions which adapt to your needs:**

- basic functions (counting, timers, comparison, display...),
- trade functions (rotating pump operation, PID regulation, Movement, Pressure, Level, Flow rate...),
- accepts specific functions developed to customer request.

Optimised “electronics”:

■ **Standards and extendable versions:** up to 50 inputs/outputs,

- **Inputs:** On/Off, potentiometer or 10-bit analog,
- **Outputs:** relay, static or PWM,
- **Mounting:** on DIN rail, or on panel using screws,
- **Integrated LCD display:** back-lit, 4 lines of 18 characters, scrolling screen, bar-graph,
- **Selective configuration:** choose which parameters can be adjusted from the front panel,
- **Saves your data:** for 10 years, even when mains power is interrupted,
- **Protects your programs:** with a password.



Offer Overview

Compact Millenium 3 range

■ “Standard” logic controller versions

- CD12 (8 inputs, 4 outputs)
- CD20 (12 inputs, 8 outputs)



CD12



CD20

■ “Blind” logic controller versions

- CB12 (8 inputs, 4 outputs)
- CB20 (12 inputs, 8 outputs)



CB12



CB20

Extendable Millenium 3 range

■ “Extendable” logic controller versions

- XD10 (6 inputs, 4 outputs)
- XD26 (16 inputs, 10 outputs)



XD10



XD26

■ On/Off extensions

- XR06 (4 inputs, 2 outputs)
- XR10 (6 inputs, 4 outputs)
- XR14 (8 inputs, 6 outputs)



XR06



XR10



XR14

■ 10-bit analog extension

- XA04 (2 inputs, 2 outputs)

■ “Sandwich” On/Off extension

- XE10 (6 inputs, 4 outputs)



XA04



XE10



Communication Modules and Accessories



XN03



XN05



Communication Extensions for 24 V DC Controllers

Connect your equipment to your monitoring systems with our slave extensions:

- **XN03:** Modbus Extension (exchanges four 16-bit words),
- **XN05:** Ethernet Extension (exchanges eight 16-bit words).



Modem Communication Interface

Access all the Millenium 3's functions remotely via the **M3MOD Modem communication interface:**

- Download, modify and transmit your programs,
- Using the management software, receive alarm messages automatically by SMS or on your PC,
- Interrogate and verify remotely the state of the inputs, outputs and all the variables in your programs.

The **M3MOD Modem communication interface operates with either of the 2 following Modems:**

- **STN** Modem for line transmission networks,
- **GSM** Modem for wire-less communication in isolated installations.



M3MOD



RTC



GSM



"Millenium 3 Alarm"
Software



"Starter" Kits

- One Millenium 3 logic controller, either "Standard" version (12 or 20 Inputs/Outputs) or "Extendable" version (26 Inputs/Outputs),
- One PC/Controller programming cable (USB-type connector),
- One multilingual programming software (CD-ROM).



M3 Kit













Millenium 3 Accessories

- 3 modular power supplies: 12 V DC-22 W, 24 V DC-30 W or 60 W,
- Temperature and pressure sensors,
- Plug-in connectors to facilitate maintenance operations,
- IP 67 sealed front cover,
- Memory cartridge (EEPROM) to change programs easily and update the firmware,
- PC/Controller connection (Serial, USB or Bluetooth),
- External potentiometer control for tactile adjustments accessible to all,
- Remote displays:
 - LED 36x72: 4-digit numerical display,
 - back-lit LCD: alpha-numeric display and configuration,
- Current/voltage converters,
- Temperature converters,
- Multilingual programming software for PC (CD-ROM)...



Selection guide *Millenium*³

Millenium 3	Voltage	Inputs	Outputs	LCD Display	Type	Part Number	
Standard or Blind Logic Controller*  CD12  CD20  CB20	24 V AC	8 On/Off	4 relay	Yes	CD12	88970044	
	100-240 V AC			No	CB12	88970024	
	12 V DC			Yes	CD12	88970043	
	24 V DC	8 On/Off (incl. 4 analog 10-bit)		No	CB12	88970023	
	24 V AC			Yes	CD12	88970045	
	100-240 V AC			Yes	CD12	88970041	
	12 V DC	12 On/Off	4 static (incl. 1 PWM)	No	CB12	88970021	
	24 V DC		Yes	CD12	88970042		
	24 V AC		Yes	CD20	88970054		
	100-240 V AC		No	CB20	88970034		
	12 V DC		Yes	CD20	88970053		
	24 V DC		No	CB20	88970033		
24 V AC	12 On/Off (incl. 6 analog 10-bit)	Yes	CD20	88970055			
100-240 V AC		Yes	CD20	88970051			
12 V DC		No	CB20	88970031			
24 V DC	8 static (incl. 4 PWM)	Yes	CD20	88970052			
Extendable Logic Controller  XD10  XD26	24 V AC	6 On/Off	4 relay	Yes	XD10	88970144	
	100-240 V AC			Yes	XD10	88970143	
	24 V DC	6 On/Off (incl. 4 analog 10-bit)		4 static (incl. 1 PWM)	Yes	XD10	88970141
	100-240 V AC			Yes	XD10	88970142	
	24 V AC	16 On/Off	10 relay	Yes	XD26	88970164	
	100-240 V AC			Yes	XD26	88970163	
	12 V DC			Yes	XD26	88970165	
	24 V DC			Yes	XD26	88970161	
24 V AC	16 On/Off (incl. 6 analog 10-bit)	10 static (incl. 4 PWM)		Yes	XD26	88970162	
100-240 V AC		Yes		XD26	88970162		
Extensions  "Sandwich" XE10  XR10  XA04	24 V AC	6 On/Off	4 relay	-	XE10	88970324	
	100-240 V AC			-	XE10	88970323	
	24 V DC			-	XE10	88970321	
	24 V AC	4 On/Off	2 relay	-	XR06	88970214	
	100-240 V AC			-	XR06	88970213	
	12 V DC			-	XR06	88970215	
	24 V DC	6 On/Off		4 relay	-	XR06	88970211
	24 V AC				-	XR10	88970224
	100-240 V AC				-	XR10	88970223
	12 V DC	8 On/Off	6 relay		-	XR10	88970225
	24 V DC				-	XR10	88970221
	24 V AC				-	XR14	88970234
	100-240 V AC			-	XR14	88970233	
	12 V DC	-		XR14	88970235		
	24 V DC	-		XR14	88970231		
	24 V DC	2 analog (10-bit)	2 analog (10-bit)	-	XA04	88970241	
	Communication Modules  XN03	24 V DC	Modbus (Slave)		XN03	88970250	
		24 V DC	Ethernet (Slave)		XN05	88970270	
		12-24 V DC	M3MOD Modem Interface		M3MOD	88970117	
		12-24 V DC	STN Modem		RTC	88970118	
12-24 V DC		GSM Modem		GSM	88970119		
Programming Accessories 		Multilingual programming software (CD-ROM)			M3 SOFT	88970100	
	Alarm management software (CD-ROM)			M3 ALARM	88970116		
	Library of specific functions (CD-ROM)			M3 SPECIFIC FUNCTIONS	88970103		
	Serial connection cable: PC => Millenium 3			PA	88970102		
	USB connection cable: PC => Millenium 3			PA	88970109		
	Bluetooth Interface			PA	88970104		
	EEPROM memory cartridge			PA	88970108		

(*) Contact us for «bare board» versions of the logic controller



▶ **Millenium 3 Applications**

With the Millenium 3's new functions, access a multitude of applications:



Controlling irrigation/
automatic watering



Access control



Automatic vending



Rolling advertising
boards

- Other applications: Automatic washing equipment, agricultural machinery, managing air conditioning and heating systems

▶ **Millenium 3 Adaptations**

Crouzet can develop customised products, adapted to your needs :

- More inputs/outputs
- Dedicated connection
- Customised housing
- Develop dedicated trade functions
- Extended temperature range
- Specific extension module
- Epoxy-sealed Millenium 3 version for tough environments

Contact our salesmen and technicians with specialist
Micro-control expertise, for your specific applications

Plug-in epoxy-
sealed Millenium 3

Extended bare
board Millenium
3 with 16 relay
outputs

Epoxy-sealed
Millenium 3 with
wire outputs and
pre-cabled harness