FAGOR 8055i CNC

Ordering Handbook.

Ref. 1111



FAGOR

FAGOR AUTOMATION

CNC 8055i BASIC DESCRIPTION

The 8055i CNC is a compact CNC (LCD Monitor and CPU behind) available in two versions:

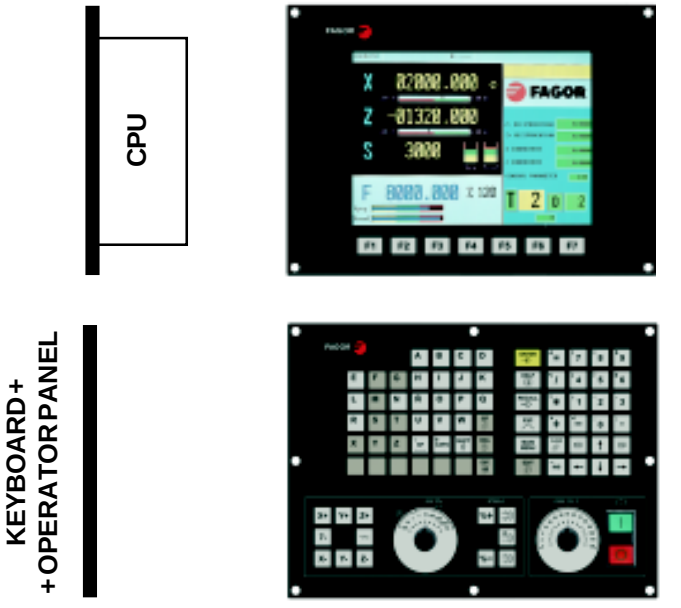
VERSION 1

LCD Monitor + CPU + KEYBOARD + OPERATOR PANEL IN ONE UNIT



VERSION 2

LCD Monitor + CPU and KEYBOARD + OPERATOR PANEL SEPARATE



KEYBOARD + OPERATOR PANEL

CNC 8055i: CONFIGURATIONS

LCD Monitor + CPU + Keyboard + Operator panel in ONE UNIT



CNC 8055i Power-TC-K

FL or Power

GP : General propourse
M : Milling machines & Centers
T : Lathes and Turning Centers
MC : Conversational model for Milling
TC : Conversational model for Lathes
EN : Engraving machines

CNC 8055i FL-GP-K	**83080122**
CNC 8055i FL-M-K	**83080124**
CNC 8055i FL-MC-K	**83080125**
CNC 8055i FL-T-K	**83080127**
CNC 8055i FL-TC-K	**83080128**
CNC 8055i-FL-EN-K	**83080093**

CNC 8055i Power-GP-K	**83080130**
CNC 8055i Power-M-K	**83080133**
CNC 8055i Power-MC-K	**83080134**
CNC 8055i Power-T-K	**83080136**
CNC 8055i Power-TC-K	**83080137**

LCD Monitor + CPU + Keyboard + Operator panel SEPARATE



LCD Monitor + CPU

CNC 8055i FL-GP	**83080121**
CNC 8055i FL-M	**83080123**
CNC 8055i FL-T	**83080126**

CNC 8055i Power-GP	**83080129**
CNC 8055i Power-M	**83080132**
CNC 8055i Power-T	**83080135**



0,8 m long cable is included in the basic configuration
Optional 2m long cable **C.JOG 40/55i 2M 03630100**



OP-8055-ALFA	**83540044**	For Milling machines, Centers, Lathes and Turning Centers
OP-8055-MC	**83540045**	For Milling Conversational models
OP-8055-TC	**83540046**	For Lathes Conversational models
OP-8055-MCO/TCO	**83540047**	For Customizable models

Keyboard + Operator panel

MAKING UP THE CENTRAL UNIT

Central Unit	CNC 8055i -x - x - x - x
RS-232 Digital 16I / 8O's 2 Handweel inputs 1 Analog Output & 1 Feedback input for Spindle, Axis or Handweel USB as memory expansion for part-programs and PLC programs	

Analog & Local I/O's boards

Analog board	ANALOG 8055i-C
4 Analog outputs & 4 Feedback inputs for the Axes (Spindles or Handweels)	83070030
Local I/O's board	4OI/24O-8055i-B
Digital 40I/24O's	83400005
Analog & Local I/O's board	ANALOG+40I/24O-C
4 Analog outputs & 4 Feedback inputs for the Axes (Spindles or Handweels) Digital 40I/24O's	83070031
Cover	COVER ANA+I/O-8055i-B
When you don´t use Analog or Local I/Os boards	83402001

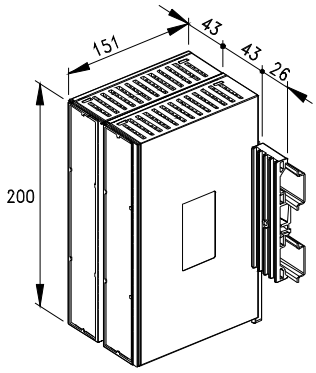
Expansion boards

ETHERNET-CAN-SERCOS	ETHERNET-CAN-SERCOS
Ethernet comunication: Ethenrnet board CAN for Remote I/O's : CAN interface for Remote I/O's Sercos: Sercos interface for drive system	83240176
ETHERNET-CAN-CAN AXES	ETHERNET-CAN-CAN AXES
Ethernet comunication: Ethenrnet board CAN for Remote I/O's :CAN interface for Remote I/O's CAN: CAN interface for drive system	83240175
ETHERNET-CAN AXES	ETHERNET-CAN AXES
Ethernet comunication: Ethenrnet board CAN: CAN interface for drive system	83240177
ETHERNET-BOARD	ETHERNET-BOARD
Ethernet comunication: Ethenrnet board	83240169

REMOTE I/O MODULES

RIO5 series. Remote modules with CANopen protocol

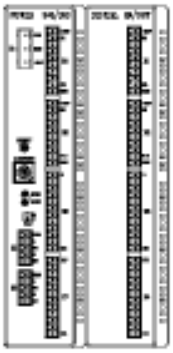




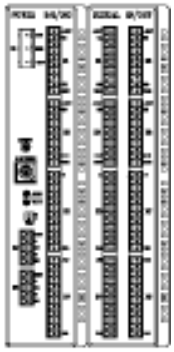
Power Supply & 24I/16O	**RIO5-PS-24I/16O**	83070015
Power Supply & 2 PT100 & 4Ai/4AO	**RIO5-PS-2PT100/4AI/4AO**	83070018
Expansion module 24I/16O	**RIO5-24I/16O EXP MOD**	83070016
Expansion module 48I/32O	**RIO5-48I/32O EXP MOD**	83070017



RIO5-PS-24I/16O 83070015



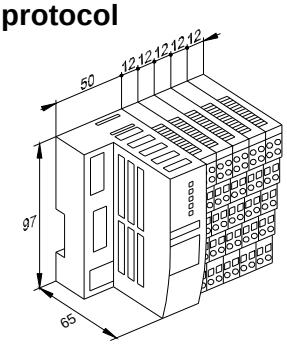
RIO5-PS-24I/16O 83070015
RIO5-24I/16O EXP MOD 83070016



RIO5-PS-24I/16O 83070015
RIO5-48I/32O EXP MOD 83070017

RIOW series. Remote modules with CANopen protocol





Header CANopen	**RIOW CANOPEN STAND**	03300010
Expansion module with 8 digital inputs	**RIOW 8DI-51205053**	03300008
Expansion module with 8 digital outputs	**RIOW 8DO-51205043**	03300007
Expansion module with 4 analog inputs	**RIOW 4AI-51205050**	03300006
Expansion module with 4 analog outputs	**RIOW 4AO-51205039**	03300005
Expansion module with 2 PT100 inputs	**RIOW 2AI PT100-51205048**	03300004
$24V_{DC}$ 10A power supply for the modules	**RIOW PS24-51205036**	03300003
Line terminating module.	**RIOW END-51205037**	03300000

CAN cable for Remote I/O's

5m	**CAN CABLE 5M**	03780100
10m	**CAN CABLE 10M**	03780101
15m	**CAN CABLE 15M**	03780102
20m	**CAN CABLE 20M**	03780103
25m	**CAN CABLE 25M**	03780104
30m	**CAN CABLE 30M**	03780106
35m	**CAN CABLE 35M**	03780107
40m	**CAN CABLE 40M**	03780108
45m	**CAN CABLE 45M**	03780109
50m	**CAN CABLE 50M**	03780110
75m	**CAN CABLE 75M**	03780111
100m	**CAN CABLE 100M**	03780112
150m	**CAN CABLE 150M**	03780113

SERCOS cables

Sercos optic fiber	1m	**SFO-1**	03900001
	2m	**SFO-2**	03900002
	3m	**SFO-3**	03900003
	5m	**SFO-5**	03900005
	7m	**SFO-7**	03900007
	10m	**SFO-10**	03900010
	12m	**SFO-12**	03900012
Flexible Sercos optic fiber	10m	**SFO-FLEX-10**	03910010
	15m	**SFO-FLEX-15**	03910015
	20m	**SFO-FLEX-20**	03910020
	25m	**SFO-FLEX-25**	03910025
	30m	**SFO-FLEX-30**	03910030
	35m	**SFO-FLEX-35**	03910035
	40m	**SFO-FLEX-40**	03910040
	40m	**SFO-V-FLEX-40**	03920040
	50m	**SFO-V-FLEX-50**	03920050
	60m	**SFO-V-FLEX-60**	03920060
	75m	**SFO-V-FLEX-75**	03920075
	100m	**SFO-V-FLEX-100**	03920100

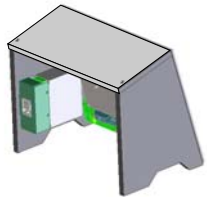
Educational CNC

CNC 8055i EDUC-K
Educational CNC 83080092



Accesories

8055i CNC SUPPORT
Tabletop CNC stand kit 03550000



KEYCF AND SOFTWARE FEATURES.

The KEYCF include the software features by means of a special code.

It must be used to store critical data used for customizing the CNC for that machine, parameters, PLC programs and screens.

The remaining memory space is free for storing User programs.

Basic 512 MB KEYCF

For 8055i FL model ..... **KEY CF 8055 FL BASIC 83240130**
For 8055i Power model ..... **KEY CF 8055 Power BASIC 83240132**

Opcional 2GB KEYCF

For 8055i FL model ..... **KEY CF 8055 FL LARGE 83240131**
For 8055i Power model ..... **KEY CF 8055 Power LARGE 83240133**

Software options for CNC 8055i FL model

Code	Software features	GP	M	MC	MCO	T	TC	TCO	EN
	Block processing time	3.5 ms							
	Loop time	4 ms							
	Look ahead	100 blocks							
80501010	Number of axes with standard software	(4)	(4)	(4)	(4)	(2)	(2)	(2)	(3)
80501000	Number of axes with optional software	(-)	(-)	(-)	(-)	(4)	(4)	(4)	(-)
	Save, Edit & Execute programs in KEYCF	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	Electronic threading	(-)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	Tool magazine management	(-)	(1)	(1)	(1)	(1)	(1)	(1)	(-)
	Machining canned cycle	(-)	(1)	(1)	(-)	(1)	(1)	(-)	(1)
	Multiple machining canned cycle	(-)	(1)	(1)	(-)	(-)	(-)	(-)	(1)
83240166	Remote Hard disk	( )	( )	( )	( )	( )	( )	( )	(1)
83240167	Ethernet	( )	( )	( )	( )	( )	( )	( )	(1)
80501004	Rigid tapping	( )	( )	( )	( )	( )	( )	( )	(1)
80501006	Tool life monitoring	(-)	( )	( )	( )	( )	( )	( )	(1)
80501007	Probing canned cycles	(-)	( )	( )	( )	( )	( )	( )	(1)
83240501	Telediagnosis	( )	( )	( )	( )	( )	( )	( )	(1)
83270003	Tool radius compensation	( )	(1)	(1)	(1)	(1)	(1)	(1)	(1)
83240145	Tangential Control	( )	( )	( )	( )	( )	( )	( )	(-)
83240155	Retracing	(-)	( )	( )	( )	( )	( )	( )	(1)
83240220	GP Basic Software	(1)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
83240149	M Basic Software	(-)	(1)	(1)	(1)	(-)	(-)	(-)	
83240141	MC Conversational Software	(-)	(-)	(1)	(-)	(-)	(-)	(-)	(-)
83240143	MCO Conversational Software	(-)	(-)	(-)	(1)	(-)	(-)	(-)	(-)
83240148	T Basic Software	(-)	(-)	(-)	(-)	(1)	(1)	(1)	(-)
83240142	TC Conversational Software	(-)	(-)	(-)	(-)	(-)	(1)	(-)	(-)
83240144	TCO Conversational Software	(-)	(-)	(-)	(-)	(-)	(-)	(1)	(-)
83240220	NE Basic Software	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(1)
80501002	Line and Solid graphics	(-)	(1)	(1)	(1)	(1)	(1)	(1)	(-)
80501003	Pockets with islands	(-)	(1)	(1)	(1)	(-)	(-)	(-)	(-)
80501008	DNC Communications	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
83270002	Profile editor	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(-)
83240156	Setup assistance	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(-) Not available (1) Standard feature ( ) Optional feature

Software options for CNC 8055i Power model

Code	Software features	GP	M	MC	MCO	T	TC	TCO
	Block processing time	1 ms						
	Loop time	2 ms						
	Look ahead	200 blocks						
80501010	Number of axes with standard software	(4)	(4)	(4)	(4)	(2)	(2)	(2)
80501000	Number of axes with optional software	(7)	(7)	(7)	(7)	(4)	(4)	(4)
80501001	Number of axes with optional software	(-)	(-)	(-)	(-)	(7)	(7)	(7)
	Save, Edit & Execute programs in KEYCF	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	Electronic threading	(-)	(1)	(1)	(1)	(1)	(1)	(1)
	Tool magazine management	(-)	(1)	(1)	(1)	(1)	(1)	(1)
	Machining canned cycle	(-)	(1)	(1)	(-)	(1)	(1)	(-)
	Multiple machining canned cycle	(-)	(1)	(1)	(-)	(-)	(-)	(-)
83240166	Remote Hard disk	( )	( )	( )	( )	( )	( )	( )
83240167	Ethernet	( )	( )	( )	( )	( )	( )	( )
80501004	Rigid tapping	( )	( )	( )	( )	( )	( )	( )
80501005	Digitizing	(-)	( )	( )	( )	(-)	(-)	(-)
80501006	Tool life monitoring	(-)	( )	( )	( )	( )	( )	( )
80501007	Probing canned cycles	(-)	( )	( )	( )	( )	( )	( )
80501009	4-axis interpolation	( )	( )	( )	( )	( )	( )	( )
83240501	Telediagnosis	( )	( )	( )	( )	( )	( )	( )
83270001	C Axis for Lathe	(-)	(-)	(-)	(-)	( )	( )	( )
83270003	Tool radius compensation	( )	(1)	(1)	(1)	(1)	(1)	(1)
83270009	Y Axis for Lathe	(-)	(-)	(-)	(-)	( )	( )	( )
83240500	Opción TCP // TCP Option	(-)	( )	( )	( )	(-)	(-)	(-)
83240145	Tangential Control	( )	( )	( )	( )	( )	( )	( )
83240155	Retracing	( )	( )	( )	( )	( )	( )	( )
83240220	GP Basic Software	(1)	(-)	(-)	(-)	(-)	(-)	(-)
83240149	M Basic Software	(-)	(1)	(1)	(1)	(-)	(-)	(-)
83240141	MC Conversational Software	(-)	(-)	(1)	(-)	(-)	(-)	(-)
83240143	MCO Conversational Software	(-)	(-)	(-)	(1)	(-)	(-)	(-)
83240148	T Basic Software	(-)	(-)	(-)	(-)	(1)	(1)	(1)
83240142	TC Conversational Software	(-)	(-)	(-)	(-)	(-)	(1)	(-)
83240144	TCO Conversational Software	(-)	(-)	(-)	(-)	(-)	(-)	(1)
80501002	Line and Solid graphics	(-)	(1)	(1)	(1)	(1)	(1)	(1)
80501003	Pockets with islands	(-)	(1)	(1)	(1)	(-)	(-)	(-)
80501008	DNC Communications	(1)	(1)	(1)	(1)	(1)	(1)	(1)
83270002	Profile editor	(1)	(1)	(1)	(1)	(1)	(1)	(1)
83240156	Setup assistance	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(-) Not available (1) Standard feature ( ) Optional featur

IN ORDER TO COMPLETE ITS ORDER

ONE UNIT: LCD Monitor + CPU + Keyboard + Operator panel

	83080122	CNC 8055i FL-GP-K		83080130	CNC 8055i Power-GP-K
	83080124	CNC 8055i FL-M-K		83080133	CNC 8055i Power-M-K
	83080125	CNC 8055i FL-MC-K		83080134	CNC 8055i Power-MC-K
	83080127	CNC 8055i FL-T-K		83080136	CNC 8055i Power-T-K
	83080128	CNC 8055i FL-TC-K		83080137	CNC 8055i Power-TC-K

SEPARATE: LCD Monitor + CPU

	83080121	CNC 8055i FL-GP		83080129	CNC 8055i Power-GP
	83080123	CNC 8055i FL-M		83080132	CNC 8055i Power-M
	83080126	CNC 8055i FL-T		83080135	CNC 8055i Power-T

Keyboard + Operator panel

	83540044	OP-8055-ALFA
	83540045	OP-8055-MC
	83540046	OP-8055-TC
	83540047	OP-8055-MCO/TCO

Analog & Local I/O's boards

	83070030	ANALOG 8055i-C	4 Analog outputs & 4 Feedback inputs
	83400005	40I/24O-8055i-B	40I / 24O
	83070031	ANALOG+40I/24O-C	4 Analog outputs, 4 Feedback inputs, 40I / 24O
	83402001	COVER ANA+I/O-8055i-B	Cover

Expansion boards

	83240176	ETHERNET-CAN-SERCOS
	83240175	ETHERNET-CAN-CAN AXES
	83240177	ETHERNET-CAN-AXES
	83240169	ETHERNET-BOARD

KEYCF

	83240130	KEY CF 8055 FL BASIC		83240131	KEY CF 8055 FL LARGE
	83240132	KEY CF 8055 Power BASIC		83240133	KEY CF 8055 Power LARGE

SOFTWARE FEATURES

	80501010	4 axes for Milling / 2 axes for Lathe	
	80501000	7 axes for Milling / 4 axes for Lathe	7 axes only for CNC 8055i Power
	80501001	7 axes for Lathe	Only for CNC 8055i Power
	83240166	Remote Hard disk	
	83240167	Ethernet	
	80501004	Rigid tapping	
	80501005	Digitizing	Only for M, M, MCO models in CNC 8055i Power
	80501006	Tool life monitoring	No available for GP model
	80501007	Probing canned cycles	No available for GP model
	80501009	4-axis interpolation limit	Only for CNC 8055i Power
	83240501	Telediagnosis	
	83270001	C Axis for Lathe	Only for CNC 8055i Power
	83270003	Tool radius compensation	
	83270009	Y Axis for Lathe	Only for CNC 8055i Power
	83240500	TCP Option for Milling	Only for CNC 8055i Power
	83240145	Tangential Control	
	83240155	Retracing	No available for CNC 8055i FL GP model
	83240220	GP Basic Software	
	83240149	M Basic Software	
	83240141	MC Conversational Software	
	83240143	MCO Conversational Software	
	83240148	T Basic Software	
	83240142	TC Conversational Software	
	83240144	TCO Conversational Software	

Educational CNC

	83080092	CNC 8055i EDUC-K

ACCESORIES

	03550000	8055i CNC SUPPORT	Tabletop CNC stand kit

Manuals

	03M50000	M.CNC 8055 M OEM-CAS	8055 M CNC OEM Manual in Spanish
	03M50001	M.CNC 8055 M OEM-ING	8055 M CNC OEM Manual in English
	03M50004	M.CNC 8055 M OEM-ITA	8055 M CNC OEM Manual in Italian
	03M50010	M.CNC 8055 M USER-CAS	8055 M CNC user Manual in Spanish
	03M50011	M.CNC 8055 M USER-ING	8055 M CNC user Manual in English
	03M50012	M.CNC 8055 M USER-FRA	8055 M CNC user Manual in French
	03M50013	M.CNC 8055 M USER-ALE	8055 M CNC user Manual in German
	03M50014	M.CNC 8055 M USER-ITA	8055 M CNC user Manual in Italian
	03M50015	M.CNC 8055 M USER-BRA	8055 M CNC user Manual in Portuguese-Brazilian
	03M50016	M.CNC 8055 M USER-HOL	8055 M CNC user Manual in Dutch
	03M50020	M.CNC 8055 T OEM-CAS	8055 T CNC OEM Manual in Spanish
	03M50021	M.CNC 8055 T OEM-ING	8055 T CNC OEM Manual in English
	03M50024	M.CNC 8055 T OEM-ITA	8055 T CNC OEM Manual in Italian
	03M50030	M.CNC 8055 T USER-CAS	8055 T CNC user Manual in Spanish
	03M50031	M.CNC 8055 T USER-ING	8055 T CNC user Manual in English
	03M50032	M.CNC 8055 T USER-FRA	8055 T CNC user Manual in French
	03M50033	M.CNC 8055 T USER-ALE	8055 T CNC user Manual in German
	03M50034	M.CNC 8055 T USER-ITA	8055 T CNC user Manual in Italian
	03M50035	M.CNC 8055 T USER-BRA	8055 T CNC user Manual in Portuguese-Brazilian
	03M50036	M.CNC 8055 T USER-HOL	8055 T CNC user Manual in Dutch
	03M50040	M.CNC 8055 MC USER-CAS	8055 MC CNC user Manual in Spanish
	03M50041	M.CNC 8055 MC USER-ING	8055 MC CNC user Manual in English
	03M50042	M.CNC 8055 MC USER-FRA	8055 MC CNC user Manual in French
	03M50043	M.CNC 8055 MC USER-ALE	8055 MC CNC user Manual in German
	03M50044	M.CNC 8055 MC USER-ITA	8055 MC CNC user Manual in Italian
	03M50045	M.CNC 8055 MC USER-BRA	8055 MC CNC user Manual in Portuguese-Brazilian
	03M50046	M.CNC 8055 MC USER-HOL	8055 MC CNC user Manual in Dutch
	03M50050	M.CNC 8055 TC USER-CAS	8055 TC CNC user Manual in Spanish
	03M50051	M.CNC 8055 TC USER-ING	8055 TC CNC user Manual in English
	03M50052	M.CNC 8055 TC USER-FRA	8055 TC CNC user Manual in French
	03M50053	M.CNC 8055 TC USER-ALE	8055 TC CNC user Manual in German
	03M50054	M.CNC 8055 TC USER-ITA	8055 TC CNC user Manual in Italian
	03M50055	M.CNC 8055 TC USER-BRA	8055 TC CNC user Manual in Portuguese-Brazilian
	03M50056	M.CNC 8055 TC USER-HOL	8055 TC CNC user Manual in Dutch
	03M50060	M.CNC 8055 MCO/TCO USER-CAS	8055 MCO/TCO CNC user Manual in Spanish
	03M50061	M.CNC 8055 MCO/TCO USER-ING	8055 MCO/TCO CNC user Manual in English
	03M50062	M.CNC 8055 MCO/TCO USER-FRA	8055 MCO/TCO CNC user Manual in Spanish
	03M50063	M.CNC 8055 MCO/TCO USER-ALE	8055 MCO/TCO CNC user Manual in Spanish
	03M50064	M.CNC 8055 MCO/TCO USER-ITA	8055 MCO/TCO CNC user Manual in Italian
	03M50065	M.CNC 8055 MCO/TCO USER-BRA	8055 MCO/TCO CNC user Manual in Spanish
	03M50066	M.CNC 8055 MCO/TCO USER-HOL	8055 MCO/TCO CNC user Manual in Spanish

Spare parts

	83070032	ANALOG 8055i-C (RF)
	83402007	40I/24O-8040/55i-B (RF)
	83070033	ANALOG+40I/24O-C (RF)
	83402002	COVER ANA+I/O-55i-B (R)
	83240179	ETH-CAN-SERCOS (R)
	83240178	ETH-CAN-CAN AXES (R)

	83240134	KEY CF 8055 FL BASIC (R)
	83240135	KEY CF 8055 FL LARGE (R)
	83240136	KEY CF 8055 Power BASIC (R)
	83240137	KEY CF 8055 Power LARGE (R)

REMOTE I/O MODULES

RIO5 series

	83070015	RIO5 PS-24I/16O	Power Supply + 24I/16O
	83070018	RIO5 PS-2PT100/4AI/4AO	PS, 2 PT100, 4 analog inputs and 4 analog outputs
	83070016	RIO5 24I/16O EXP MOD	24I/16O
	83070017	RIO5 48I/32O EXP MOD	48I/32O

RIOW series

	03300010	RIOW CANOPEN STAND	Header module CANopen
	03300008	RIOW 8DI-51205053	Expansion module with 8 digital inputs
	03300007	RIOW 8DO-51205043	Expansion module with 8 digital outputs
	03300006	RIOW 4AI-51205050	Expansion module with 4 analog inputs
	03300005	RIOW 4AO-51205039	Expansion module with 4 analog outputs
	03300004	RIOW 2AI PT100-51205048	Expansion module with 2 inputs for PT100
	03300003	RIOW PS24-51205036	24 V DC 10 A power supply for the modules
	03300000	RIOW END-51205037	Line terminating module.

CAN cable for Remote I/O's

	03780100	CAN CABLE 5M
	03780101	CAN CABLE 10M
	03780102	CAN CABLE 15M
	03780103	CAN CABLE 20M
	03780104	CAN CABLE 25M
	03780106	CAN CABLE 30M
	03780107	CAN CABLE 35M

	03780108	CAN CABLE 40M
	03780109	CAN CABLE 45M
	03780110	CAN CABLE 50M
	03780111	CAN CABLE 75M
	03780112	CAN CABLE 100M
	03780113	CAN CABLE 150M

Sercos optic fiber cables

	03900001	SFO-1
	03900002	SFO-2
	03900003	SFO-3
	03900005	SFO-5

	03900007	SFO-7
	03900010	SFO-10
	03900012	SFO-12

Flexible Sercos optic fiber cables

	03910010	SFO-FLEX-10
	03910015	SFO-FLEX-15
	03910020	SFO-FLEX-20
	03910025	SFO-FLEX-25
	03910030	SFO-FLEX-30
	03910035	SFO-FLEX-35
	03910040	SFO-FLEX-40

	03920040	SFO-V-FLEX-40
	03920050	SFO-V-FLEX-50
	03920060	SFO-V-FLEX-60
	03920075	SFO-V-FLEX-75
	03920100	SFO-V-FLEX-100