

DOTE3-G

Digital Torque Wrench Tester

Calibration

Digital

Manual Handle

Direct Reading

RoHS

Direction



DOTE100N3-G



- Multiple units of measure through keypad setup
- "Loading system" stabilizes wrench during calibration procedure for optimal results.
- RS232C output
- Max. 99 measured data can be stored.

Accuracy $\pm 1\% + 1$ digit

Model	Torque Range												Torque Wrench Max. Effective Length [mm]	Inlet Drive [mm]	Weight [kg]
	cN-m		N-m		kgf-cm		kgf-m		lbf-in		lbf-ft				
	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit			
DOTE20N3-G	200.0-2000.0	0.5	2.000-20.000	0.005	20.00-200.00	0.05	-	-	18.00-180.00	0.05	-	-			
DOTE50N3-G	-	-	5.00-50.00	0.01	50.0-500.0	0.1	-	-	44.0-440.0	0.1	3.60-36.00	0.01	410	9.5	11
DOTE100N3-G	-	-	10.0-100.00	0.02	100.0-1000.0	0.2	-	-	88.0-880.0	0.2	7.30-73.00	0.02		12.7	
DOTE200N3-G	-	-	20.00-200.00	0.05	200.0-2000.0	0.5	-	-	170.0-1700.0	0.5	15.00-150.00	0.05	660		13
DOTE500N3-G	-	-	50.0-500.0	0.1	-	-	5.00-50.00	0.01	440-4400	1	36.0-360.0	0.1	1020	19.0	24
DOTE1000N3-G	-	-	100.0-1000.0	0.2	-	-	10.00-100.00	0.02	880-8800	2	73.0-730.0	0.2	1650	25.4	45

- Note
1. Auto-zero adjustment function.
 2. Statistical function includes the number of sampling, max/min/mean values.

DOTE3-G-MD

RoHS

DOTE3-G with Motor Driven Loading Device

Model
DOTE20N3-G-MD
DOTE50N3-G-MD
DOTE100N3-G-MD
DOTE200N3-G-MD
DOTE500N3-G-MD
DOTE1000N3-G-MD



DOTE100N3-G-MD

DOTE3-G Standard Accessories

Model	Down Adapter (Female)		Hex Adapter (Male)	AC Adapter (Power supply)
	Part #	[mm]	[mm]	
DOTE20N3-G	296/DA3-2 (P.67)	6.35	10, 13, 19	BA-6 (AC100-240V $\pm 10\%$)
DOTE50N3-G			12, 14, 17	
DOTE100N3-G	277 (P.41)	9.5		
	297/DA4-3 (P.67)			
DOTE200N3-G	-	-	17, 22, 27/19, 24, 30	
DOTE500N3-G	-	-	22, 27, 29/30, 32, 36	
DOTE1000N3-G	299/DA8-6 (P.67)	19.0	34, 41/46, 50	

DOTE3-G Optional Accessories

Hex Adapter

Part #	Size [mm]
285	3/8-7-8-9
286	1/2-16-18-21
287	1/2-17-22-27
288	1/2-19-24-30

Connecting Cable (P.47)

Part #	Applicable Models
383	DOTE3-G \rightarrow PC, EPP16M3 (D-SUB 9 Pin Female)

- Note
1. () shows pin shape of the connecting cables.
 2. Contact Tohnichi for other types of connecting cables.

Battery Pack (P.47)

Model
BP-100-3

Printer (P.67)

Model
EPP16M3

Data Filing System (P.66)

Model	Media
DFS	CD-ROM

DOT

Analog Torque Wrench Tester

Direction



DOT100N

Calibration

Dial Indicating

Manual Handle

Direct Reading

RoHS

- Dial indicating
- For clockwise testing
- Mechanical loading device

Accuracy $\pm 2\%$

S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-cm]		American Model	Torque Range [lbf-in/lbf-ft]		Torque Wrench Max. Effective Length [mm]	Inlet Drive [mm]	Weight [kg]	Standard Accessory	
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.				Down Adapter (Female) [mm]	Hex Adapter (Male) [mm]
							lbf-in	lbf-ft					
DOT35N	5-35.0	0.1	350DOT	50-350	1	DOT300I	50-300	1		9.5		#296 (6.3)	10, 13, 19
DOT50N	5-50.0	0.2	500DOT	50-500	2	DOT430I	50-430	2	410		8	#277 (6.4), #297 (9.5)	12, 14, 17
DOT100N	10-100.0	0.5	1000DOT	100-1000	5	DOT1000I	100-1000	5		12.7			
						lbf-ft	lbf-ft						
DOT300N	30-300	1	3000DOT	300-3000	10	DOT200F	20-200	1	660		19	-	17, 22, 27, 19, 24, 30
DOT700N	70-700	2	7000DOT	700-7000	20	DOT500F	50-500	2	1260		25	-	22, 27, 29, 30, 32, 36

Note Measurement for clockwise direction only.

DOT-MD

DOT with Motor Driven Loading Device

S.I. Model	Metric Model	American Model
DOT35N-MD	350DOT-MD	DOT300I-MD
DOT50N-MD	500DOT-MD	DOT430I-MD
DOT100N-MD	1000DOT-MD	DOT1000I-MD
DOT300N-MD	3000DOT-MD	DOT200F-MD
DOT700N-MD	7000DOT-MD	DOT500F-MD

Calibration Kit for DOTE3-G/DOT



* Sold separately. Refer to page 62.

TF Fully Automatic Digital Torque Wrench Tester

Direction



TF2000N

TF Standard Accessories

Hex Adapter, Ratchet Adapter, and Down Adapter

Model	Hex Adapter Dimensions [mm]	Ratchet Adapter Model	Down Adapter Model
TF200N	□12.7-17, 22, 27 □12.7-19, 24, 30 □9.53-10, 13, 19 □9.53-12, 14, 17	RA3mk2 RA4mk2	DA3-2 DA4-3
	□19.05-W22, 27, 29 □19.05-W30, 32, 36 □9.53-W10, 13, 19 □9.53-W12, 14, 17		DA3-2 DA6-4
TF1000N	□25.4-36, 46 □25.4-41, 51 □12.7-17, 22, 27 □12.7-19, 24, 30 □9.53-10, 13, 19 □9.53-12, 14, 17	RA3mk2 RA4mk2 RA8mk2	DA3-2 DA4-3 DA8-6
	□25.4-36, 46 □25.4-41, 50 □19.05-22, 27, 29 □19.05-30, 32, 36 □9.53-10, 13, 19 □9.53-12, 14, 17		DA3-2 DA4-3 DA8-6
TF2000N	□38.1-W36, 46 □38.1-W41, 50 □25.4-W36, 46 □25.4-W41, 50 □19.05-W22, 27, 29 □19.05-W30, 32, 36	RA3mk2 RA6mk2 RA8mk2	DA6-4 DA8-6 DA12-8
	□38.1-W36, 46 □38.1-W41, 50 □25.4-W36, 46 □25.4-W41, 50 □19.05-W22, 27, 29 □19.05-W30, 32, 36		DA6-4 DA8-6 DA12-8

Note Refer to page 67.

Calibration Kit for TF



* Sold separately. Refer to page 62.

Calibration Digital Electric Power Direct Reading Fully Automatic

- Tool Management System with computer
- Ideal for Calibration Labs
- Fully automatic testing, judging, and data processing

Accuracy ±1%+1digit

Model	CH	Torque Range											
		[N-m]		[kgf-cm]		[kgf-m]		[ozf-in]		[lbf-in]		[lbf-ft]	
		Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit
TF200N	1	5-200	0.05	50-2000	0.5	0.5-20	0.005	700-28000	5	50-1700	0.5	5-140	0.05
	2	0.5-20	0.005	5-200	0.05	0.05-2	0.0005	70-2800	0.5	5-170	0.05	0.5-14	0.005
TF500N	1	20-500	0.2	200-5000	2	2-50	0.02	3000-70000	20	200-4500	2	20-370	0.2
	2	2-50	0.02	20-500	0.2	0.2-5	0.002	300-7000	2	20-450	0.2	2-37	0.02
TF1000N	1	25-1000	0.25	250-10000	2.5	2.5-100	0.025	3500-140000	25	250-8500	2.5	25-700	0.25
	2	5-200	0.05	50-2000	0.5	0.5-20	0.005	700-28000	5	50-1700	0.5	5-140	0.05
TF2000N	1	100-2100	1	1000-21000	10	10-210	0.1	15000-290000	100	1000-18000	10	100-1500	1
	2	20-500	0.2	200-5000	2	2-50	0.02	3000-70000	20	200-4500	2	20-370	0.2
	3	2-50	0.02	20-500	0.2	0.2-5	0.002	300-7000	2	20-450	0.2	2-37	0.02
TF3000N	1	200-3000	1	2000-30000	10	20-300	0.1	28000-420000	100	2000-25000	10	200-2000	1
	2	100-2100	1	1000-21000	10	10-210	0.1	15000-290000	100	1000-18000	10	100-1500	1
	3	20-500	0.2	200-5000	2	2-50	0.02	3000-70000	20	200-4500	2	20-370	0.2

Standard Accessories 2m x 2P Flat Type Plug

TF Specifications and Dimension

Model	CH	Torque Wrench Max. Effective Length [mm]	Inlet Drive [mm]	Dimensions [mm]			Weight [kg]
				Overall Length	Width	Height	
TF200N	1	1550	12.7	1860	550	930	240
	2	1480	9.53				
TF500N	1	1550	19.05	1860	550	930	315
	2	1480	9.53				
TF1000N	1	1650	25.4	2160	550	930	380
	2	1550	12.7				
	3	1480	9.53				
TF2000N	1	2150	25.4	2660	550	930	415
	2	1550	19.05				
	3	1480	9.53				
TF3000N	1	2650	38.1	3160	550	930	450
	2	2150	25.4				
	3	1550	19.05				

TF: The tester performs automatic measurement and judgment.

3 Types of Measurement:

- (1) Click type torque wrench measurement
- (2) Direct type reading torque wrench measurement
- (3) Manual measurement: free set measurement points, number of counts, and accuracy when checking unregistered wrenches, or single-value preset torque wrenches.

TCC2-G Digital Torque Wrench Tester

Direction



TCC2-G Standard Accessories

Model	Hex Adapter	DOWN ADAPTER	Others
TCC100N2-G	□12.7-W10, 13, 19 □12.7-W12, 14, 17	DA3-2 DA4-3	(1) Cradle for PC display (2) AC adapter for PC display (3) Power cable
TCC100N2-D-G		DA4-3	
TCC500N2-G	□12.7-W10, 13, 19 □12.7-W12, 14, 17 □19.05-W17, 22, 27 □19.05-W19, 24, 30	DA4-3 DA6-4	(1) Cradle for PC display (2) AC adapter for PC display (3) Power cable
	TCC1000N2-G	□19.05-W17, 22, 27 □19.05-W19, 24, 30 □25.4-W36, 46 □25.4-W41, 50	

Note Refer to page 67.

Calibration Digital Manual Handle Direct Reading

- Torque calibrator with data management software with wide torque range
- Calibration, adjustment, and data management for torque wrenches
- Multiple measuring unit
- Slate PC controller

Accuracy ±1%+1digit

Model	CH	Torque Range [N-m]		Torque Range [kgf-cm]		Torque Range [lbf-in]		Torque Wrench Max. Effective Length [mm]	Inlet Drive [mm]	Dimensions [mm]			Weight [kg]
		Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit			Overall Length	Width	Height	
		TCC100N2-G	1	4-100	0.01	40-1000	0.1			35.5-885	0.1	575	
	2	1-25	0.002	10-250	0.02	9-220	0.02	482	9.53				
TCC100N2-D-G	1	4-100	0.01	40-1000	0.1	35.5-885	0.1	575	12.7	714	388	375	35
	2	20-600 cN-m	0.05 cN-m	2-60	0.005	2-50	0.005	482	6.35				
TCC500N2-G	1	20-500	0.05	200-5000	0.5	180-4400	0.5	1035	19.05	1206	502	430	75
TCC1000N2-G	1	4-100	0.01	40-1000	0.1	36-880	0.1	769	12.7	1906	574	526	115
	2	50-1000	0.1	500-10000	1	445-8800	1	1700	25.4				
	2	20-500	0.05	200-5000	0.5	180-4400	0.5	1212	19.05				

TCC2-G Specifications

Display	10 inch slate PC
Tool Management Function	Torque wrench/driver registration date, measurement date memory (model, serial number, measurement point, measurement count, accuracy level, channel, measurer, past record) Maximum data amount (1000pcs worth) is based on testing torque wrenches of single force direction. When testing bi-direction torque wrenches such as BQSP, it will be less than 1000pcs
Measurement Mode	Click mode / direct reading mode / manual mode
Zero Adjustment	Automatic (press C key)
Operation Temperature	[°C] 0 ~ 40 (no condensation)
Power	[V] 100 ~ 240V 50/60Hz

Calibration Kit for TCC2-G

* Sold separately. Refer to page 62.



LC3-G Torque Wrench Line Checker

Direction



LC1000N3-G

Checking Digital Manual Loading Direct Reading RoHS

- For daily inspections of torque wrenches
- Newly added judgment function and USB output
- Multiple units of measure through keypad setup

Accuracy ±1%+1digit

Description	Mode	Torque Range												Inlet Drive [mm]	Weight [kg]
		cN·m		N·m		kgf·cm		kgf·m		lbf·in		lbf·ft			
		Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit		
LC20N3-G	Run	50.0-2000.0	0.2	0.500-20.000	0.002	5.00-200.00	0.02	-	-	5.00-174.00	0.02	-	-	9.5	
	Peak	50.0-99.8	0.2	0.500-9.998	0.002	5.00-9.98	0.02	-	-	5.00-9.98	0.02	-	-		
		100-999	1	1.00-9.99	0.01	10.0-99.9	0.1	-	-	10.0-99.9	0.1	-	-		
LC200N3-G	Run	-	-	5.00-200.00	0.02	50.0-2000.0	0.2	-	-	50.0-1740.0	0.2	4.00-140.00	0.02	10.5	
	Peak	-	-	5.00-9.98	0.02	50.0-99.8	0.2	-	-	50.0-99.8	0.2	4.00-9.98	0.02		
		-	-	10.0-99.9	0.1	100-999	1	-	-	100-999	1	10.0-99.9	0.1		
LC1000N3-G	Run	-	-	50.0-1000.0	0.1	-	-	5.00-100.00	0.01	500-8800	1	36.8-735.0	0.1	19.0	34
	Peak	-	-	50.0-99.9	0.1	-	-	5.00-9.99	0.01	500-999	1	36.8-99.9	0.1		
		-	-	100-1000	1	-	-	10.0-100.0	0.1	1000-8800	10	100-735	1		
LC1400N3-G	Run	-	-	100.0-1400.0	0.2	-	-	10.00-140.00	0.02	900-12000	2	75.0-1000.0	0.2	25.4	39
	Peak	-	-	100-999	1	-	-	10.0-99.9	0.1	900-998	2	75.0-99.8	0.2		
		-	-	1000-1400	10	-	-	100-140	1	1000-9990	10	100-1000	1		

Note 1. Dimensions: L278mm × W160mm × H167mm (LC20N3-G, LC200N3-G)
L500mm × W290mm × H186mm (LC1000N3-G)
L500mm × W313mm × H186mm (LC1400N3-G)
2. Calibration kits (TCL models) are optional. Refer to page 62.
3. Max. 1000 measured data can be stored.

Standard Accessories AC Adapter/BA-6 (AC100-240V±10%)

LC3-G Standard Accessories

Hexagon Head Adapter

Part #	Applicable Model	Square Drive [mm]	Hex Size (Male) [mm]
282	LC20N3-G	9.5	8, 10, 12, 13, 14, 17
280	LC200N3-G	12.7	8, 10, 12, 13, 14, 17, 19, 22

Socket Adapter (P.41)

Part #	Applicable Model	Inlet Drive [mm]	Hex Size (Male) [mm]
270	LC20N3-G	6.35	9.5
272	LC200N3-G	9.5	12.7
274	LC1000N3-G	12.7	19.0
276	LC1400N3-G	19.0	25.4

Calibration Kit for LC3-G/ST3-G

* Sold separately. Refer to page 62.

LC3-G Optional Accessories

Connecting Cable (P.47)

Part #	Applicable Models
383	LC3-G → PC, EPP16M3
385	LC3-G → PC

Note Contact Tohnichi for other types of connector shapes.

Battery Pack (P.47)

Model
BP-100-3

Printer (P.67)

Model
EPP16M3

Data Filing System (P.66)

Model	Media
DFS	CD-ROM

ST3-G ST3-G-BT

SPINTORK (Rotary Peak Torque Meter)

Direction



ST15N3-6.35-G

ST50N3-3/8-G

Checking Digital Re-Chargeable Direct Reading RoHS

- Ideal for checking nutrunner torque output and angle
- Data output through USB (ST3-G) and Bluetooth (ST3-G-BT)
- Tightening torque value can be detected by every 1° degree in bluetooth version.

ST3-G/ST3-G-BT Specifications

Torque Accuracy	+/- 1% + 1digit
Angle Range	0 to 999°
Angle 1 digit	1°
Angle Accuracy	+/- 2°+1digit
Measuring Direction	Bi-direction
Display	7 segment LCD; Unit, Battery life, Direction Counter value: 3 digits (3mm height) Torque and angle value: 3 digits (7mm height)
Measuring Mode	PEAK/RUN
Data Memory	999
Data Output	USB / Bluetooth -BT models
Continuous Duty	10 hours / 5 to 8 hours -BT models
Power	Built-in Ni-MH (Nickel hydrogen) battery pack
Operating temperature	0~40°C
BT Communication Distance	10m
Other Functions	Auto Memory/Reset (0.5-5 seconds variable), Auto Power Off (3/10/30 mins, Non), Display of remaining battery level (4 levels)

Accuracy ±1%+1digit

Model		Torque Range												Overall Length [mm]	Inlet/Outlet Drive [mm]	Weight [kg]	
		N.m		cN.m		kgf.cm		kgf.m		ozf.in		lbf.in					lbf.ft
Standard version	Bluetooth version	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit
NEW ST10N3-G	NEW ST10N3-G-BT	2-10	0.01	200-1000	1	20-100	0.1	0.2-1	0.001	285-1400	1	18-88	0.1	1.5-7.3	0.01	75	6.35
NEW ST15N3-6.35-G	NEW ST15N3-6.35-G-BT	4-15	0.02	400-1500	2	40-150	0.2	0.4-1.5	0.002	570-2100	2	36-131	0.2	3-11	0.02	106.5	Hex 6.35
NEW ST20N3-G	NEW ST20N3-G-BT	4-20	0.02	400-2000	2	40-200	0.2	0.4-2	0.002	570-2800	2	36-175	0.2	3-14.5	0.02		
NEW ST50N3-3/8-G	NEW ST50N3-3/8-G-BT	10-50	0.05	1000-5000	5	100-500	0.5	1-5	0.005	1420-7000	5	90-440	0.5	7.5-36.5	0.05		9.53
NEW ST50N3-1/2-G	NEW ST50N3-1/2-G-BT	10-50	0.05	1000-5000	5	100-500	0.5	1-5	0.005	1420-7000	5	90-440	0.5	7.5-36.5	0.05	75	
NEW ST100N3-G	NEW ST100N3-G-BT	20-100	0.1	-	-	200-1000	1	2-10	0.01	-	-	180-880	1	15-73	0.1		12.7
NEW ST200N3-G	NEW ST200N3-G-BT	40-200	0.2	-	-	400-2000	2	4-20	0.02	-	-	360-1750	2	30-145	0.2		
NEW ST500N3-G	NEW ST500N3-G-BT	100-500	0.5	-	-	1000-5000	5	10-50	0.05	-	-	900-4400	5	75-365	0.5	120	19.05
NEW ST1000N3-G	NEW ST1000N3-G-BT	200-1000	1	-	-	-	-	20-100	0.1	-	-	150-735	1	135	25.4		1.3

Note 1. Not for use with impact wrenches.
2. Graph of angle and torque can be created in Bluetooth version.
3. Data output of Bluetooth version is through Bluetooth only.
4. Refer to page 30 for condition of wireless equipment in each country for Bluetooth version.

Standard Accessories 1. Quick Battery Charger/BC-4-2 2. Battery Pack (built-in) 3. CD-ROM (USB Driver) 4. USB Connecting Cable/384 (384 is not attached with Bluetooth version) 5. Carrying Case

TDT3-G Digital Torque Screwdriver Tester

Direction



TDT600CN3-G with loading device (Model: STA)



Calibration

Digital

Manual Rotary

Direct Reading

Loading Device

RoHS

- Ideal for testing click and dial indicating torque screwdrivers
- Newly added judgment function and USB output
- Multiple units of measure through keypad setup
- Optional TDTLA3 for testing small torque wrenches and LTA for indicating type torque screwdrivers

Accuracy $\pm 1\% + 1\text{digit}$

Model	Torque Range								Inlet Drive [mm]	Dimensions [mm]			Weight [kg]
	cN-m		kgf-cm		ozf-in		lbf-in			Overall Length	Width	Height	
	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit					
TDT600CN3-G	2-60	0.005	0.2-6	0.0005	3-80	0.005	0.2-5	0.0005	6.35 Hex (Male)	230	220	225	11
TDT600CN3-G	20-600	0.05	2-60	0.005	30-800	0.05	2-50	0.005	with a groove (0.7mm)				

Note 1. Loading device keeps stable measuring conditions to avoid reading errors.
2. Max 1,000 measured data can be stored.

Standard Accessories 1. AC Adapter/BA-6, 2. Loading Device/STA

TDT3-G Optional Accessories

Connecting Cable (P.47)

Part #	Applicable Models
383	TDT3-G → PC, EPP16M3
385	TDT3-G → PC

Battery Pack (P.47)

Model
BP-100-3

Loading Device

Model
TDTLA3
LTA
STA

As for TDTLA3, TDT600CN3-G measures 2-60 cN-m and TDT600CN3-G measures 20-600cN-m range of torque wrenches. LTA is for direct reading torque drivers such as FTD and STC. STA is for tightening torque driver such as RTD and LTD.

Printer (P.67)

Model
EPP16M3

Data Filing System (P.64)

Model	Media
DFS	CD-ROM

Hex Adapter

Part #	Description
480	1/4-5.5-8-12
481	1/4-6-10-13
482	1/4-7-11-14
483	1/4-16-19-22
484	1/4-17-21-24

Loading Device Connecting Adapter

Part #	Description
485	STA, TDTLA3, LTA to TDT, TDT2-G

Calibration Kit for TDT3-G

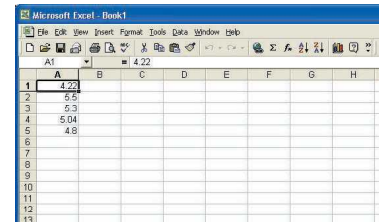


* Sold separately. Refer to page 62.

Excel Receiver Software

The Excel Receiver software allows for the transfer of collected torque data from various Tohnichi digital torque equipment into a Microsoft Excel worksheet. Tohnichi also provides customized software upon request.

Excel Receiver is compatible with the following equipment:



CEM100N3x15D-G

CEM3-G: ExRcv for CEM



CTB100N2x15D-G

CTB2-G: ExRcv for CTB



PRO TORK™



CPT-G: ExRcv for CPT



TDT600CN3-G

TDT600CN3-G+TDTLA3

TDT3-G: ExRcv for TDT



DOTE100N3-G

DOTE3-G: ExRcv for DOTE



LC200N3-G

LC3-G: ExRcv for LC



ST50N3-3/8-G

ST1000N3-G-BT

ST3-G: ExRcv for ST



ATGE5CN-G

BTGE200CN-G

ATGE-G/BTGE-G: ExRcv for ABTGE



2TME500CN2

TME2: ExRcv for TME



CD5

CD5: ExRcv for CD



STC200CN2-G

STC2-G: ExRcv for STC2-G