Information Only Service Note

E5071C – ENA Series Network Analyzer, 9kHz to 20GHz

Serial Numbers: ALL
Manufacturing ID Number: N/A

CPU Module Part Number Change

Parts Required:
Refer to Table 1-2

ADMINISTRATIVE INFORMATION

[X] Calibration Required	PRODUCT LINE: WN
[[]] Calibration NOT Required	AUTHOR: ls

ADDITIONAL INFORMATION:
E5071C CPU Module Part Number Change

Situation:
CPU Digital Motherboard discontinuance
For E5071C (serial prefix of MY461/ SG461), due to the part discontinuance by CPU motherboard manufacturer, the E5071-62001 CPU Module Assembly is no longer supplied.

Windows XP COA discontinuance
For E5071C (serial prefix of MY461/ SG461; MY462/ SG462, MY463/ SG463, MY464/ SG464), Windows XP COA can no longer be supplied after end of 2016, thus, upgrade kit shipped with Windows XP HDD/ SSD would be discontinued.

Please refer to the following solution in repairing customer's instruments as soon as the on-hand stocks are depleted.

Solution/Action:
For any of the above described situations, in general, there are two options be made available.

Option#1 Purchase SPO 5x5 PN repair kit

1. Service center to purchase 5x5 PN repair kit from SPO. Raise hotline for urgent repair if it's necessary. Refer to the latest revision of E5071C-32x (x = A,B,C...) Information Only (Internal Only) Service Note for the detailed upgrade procedure.

2. Since this involves HDD/ SSD replacement, Keysight service center is required to inform customer to perform data-backup accordingly before any conversion is carried out.

Option#2 Purchase upgrade kit E5071CU

The E5071CU upgrade kit pricing is strategically positioned in offering customer a lower upgrade price compared to the total pricing for individual parts.

Note: Should customer request for a lower part replacement cost, Keysight service center would seek for FE in requesting for discounts on the E5071CU upgrade kit with the following prerequisites information in getting divisional review and approval on a case by case basis.
Please include the following information on the additional discount request.

- Product Model.
- Defective/ affected unit serial number.

Include remarks (Example: "Urgent E5071C CPU repair") in SOE if it's necessary.

Table 1-1 shows the quick overview of the unit s/n prefix, generation and their respective OS & CPU PN. Refer to Table 1-2 for the recommended replacement matrix for the respective generations.

Table 1-1.

	1st Generation	2nd Generation	3rd Generation	4th Generation	5th Generation
Serial-prefix	MY461/ SG461	MY462/ SG462	MY463/ SG463; MY464/ SG464	MY465/ SG465; MY466/ SG466	MY467/ SG467
OS	Win-XP (Vista Downgrade)	Win-XP	Win-XP	Win-7	Win-10
CPU	E5071-62001	E5052-62070	E5070-62090	E5070-62091	E5071-62060

Table 1-2 – CPU replacement and handling matrix.

CPU/ Digital Hardware generation	To (Upgrade kit) <SPO repair kit> *3				
From	1st	2nd	3rd	4th	5th
1st	–	(E5071CU-040) *1 <E5071-65103> *1 <E5071-65104> *1	(E5071CU-042) *1 <E5071-65113>*1	(E5071CU-043) <E5071-65110> Upgrade digital HW module, from Win-XP to Win-7 for E5071C-xD5, xK5 or (E5071CU-044) <E5071-65111> Upgrade digital HW module, from Win-XP to Win-7 for E5071C-x4x, x6x, x8x	(E5071CU-045) <E5071-65114> Upgrade digital HW module, from Win-XP to Win-10 for E5071C-xD5, xK5 or (E5071CU-046) <E5071-65115> Upgrade digital HW module, from Win-XP to Win-10 for E5071C-x4x, x6x, x8x
2nd	–	–	(E5071CU-041) *1 <E5071-65112> *2 Upgrade digital HW module, from 1.86GHz to 2.53GHz (Windows XP)		
3rd	–	–	–		
4th	–	–	–	–	(E5071CU-047) <E5071-65116> Upgrade digital HW module, from Win-7 to Win-10 for E5071C-xD5, xK5 or (E5071CU-049) <E5071-65116> Upgrade digital HW module, from Win-7 to Win-10 for E5071C-x4x, x6x, x8x

*1 Discontinued or to be discontinued after end of Dec 2016.
*2 No additional Win-XP COA is required since the 2nd generation instrument was fitted and sold with Win-XP COA from factory.
*3 SPO repair kit is a NFTS (NotForTradeSale) item.

Appendix

ENA Network Analyzer Series Upgrades
http://www.keysight.com/main/editorial.jspx?cc=MY&lc=eng&ckey=1462866&nid=-536902639.350794.00&id=1462866

Shown is the history and change items for *reference purposes*.
Disclaimer. The content might not always reflect the latest information or be updated in a timely manner. For up-to-date information, always refer to the latest part list shipped with the corresponding upgrade kit/ SPO kit.

		1st generation	2nd generation	3rd generation	4th generation	5th generation
S/N prefix		MY461/ SG461	MY462/SG462	MY463/ SG463; MY464/ SG464	MY465/ SG465; MY466/ SG466	MY467/ SG467
CPU Module	CPU	Celeron M 1.3GHz	Celeron M 1.86GHz	Core i7 2.53GHz Dual-core/ 4GB RAM	Core i7 2.53 GHz Dual-core/ 8GB RAM	Flex-ATX Core i5 3.0GHz (Turbo Freq to 3.7GHz)/ 8GB RAM
	Board No.	A01/E5071-62001	A60/ E5052-62070	A70/ E5070-62090	A70/ E5070-62091	E5071-62060
	BIOS Password	"e507xa"	"agt0nly"	none	none	none
Storage	Type	PATA-HDD	SATA-HDD	SATA-SSD	SATA-SSD	SATA-SSD
	HDD/ SSD	E5071-82302	E5071-82303	E5071-82304 (E5071-82306)	E5071-82305	E5071-82307
	HDD/ SSD Rev no.	CNxxx	CFxxx	CHxxx	CTxxx	CGxxx
Front Assembly	LCD Touch Panel Assembly	E5071-60112	→	E5070-60112 (CCFL backlight) E5070-60113 (LED backlight)	E5061-60112	→
	Touch Panel Controller	5183-4184	→	→	0960-2972	→
I/F Board assembly	Bracket	E5071-01204	E5071-01236	→	→	E5071-00638
	DSP Board	E5070-66651	E5070-66661 w/ E5071-01235 (bracket) + Cables	→	→	E5052-66671
	PCI GPIB	82350-66512	none (E5071-61651 cable only)	→	→	E5052-60004
	USB TMC	0960-2357	none	→	→	→
Windows License		Windows Vista Business	Windows XP Pro for Embedded Systems	→	Windows Embedded 7	Windows 10

Power Supply	Up to 8.5GHz	0950-4773 (300W)	→	0950-4989 (350W)	→	→
	More than 8.5GHz	0950-4989 (350W)	→	→	→	→
Guide bar		E5071-1205	E5071-01230	→	→	E5071-01244

Revision History:

Date	Service Note Revision	Author	Reason for Change
27 May, 2014	E5071C-34	ls	As published
25 July, 2014	E5071C-34A	ls	Change service note type from Information Only (Internal Only) to Information Only.
21 Aug, 2014	E5071C-34B	ls	Added 2nd generation CPU upgrade in the solution. Added 5x5 PN for 4th generation CPU upgrade. Added Front Assembly LCD TP Assy. and Controller PN for reference in history change item.
14 Nov, 2016	E5071C-34C	ls	Removed 2nd generation SPO repair kit (Celeron M-1.86GHz, Win XP) following the discontinuance of Win-XP COA after year 2016. Revised the support strategy and added new replacement matrix. Offers user an additional option to upgrade to 3rd gen HW via SPO repair kit.
24 Sep, 2018	E5071C-34D	ls	Added 5th generation HW info.
16 Aug, 2019	E5071C-34E	Ls	Added 5th generation Windows 10 upgrade equivalent SPO repair kit.