

To:

April 19, 2019

(Revised Nov 15, 2019)

Please be informed Toshiba has announced discontinuation on the following product(s) in Apr 2019.

Products

See pages 2 to 7.

Last Time Buy (LTB) Option

Toshiba will support last time buy (LTB) orders received on or before the dates listed above (LTB Date). Last time buy orders for all affected products must be in place in total by LTB Date. Deliveries will be scheduled and advised accordingly after receipt of LTB orders. However, unforeseen circumstances might prevent Toshiba to support partially or fully on LTB orders. If such event occurs, we will notify you of our best support plan as soon as possible. Thank you for your understanding. Should you have any questions, please contact your sales representative.

Best Regards,

Optoelectronic Device, Discrete Business Unit

Toshiba America Electronic Components, Inc.

=====
Substitution Level**

1 =Package and characteristics are mostly same or better, not necessary to change other circuit to replace.

2 = Package and characteristics are mostly same or better, but some modification of the other circuit is necessary.

3 = Characteristics are same or better, but package/pin arrangement are different, so the other circuit modification is necessary.

4 = Multiple replacement devices are required.

Toshiba America Electronic Components, Inc.

5231 California Avenue, Irvine, CA 92617

P/N	Generic P/N	EOL Announcement Date	LTB Date	LTS Date	Substitution level *	Replacement P/N	Reason	Comment
4N25(SHORT,F)	4N25(SHORT,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
4N25(SHORT-TP1,F)	4N25(SHORT-TP1,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
4N35(SHORT,F)	4N35(SHORT,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
4N35(SHORT-LF1,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
4N35(SHORT-LF5,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
4N35(SHORT-TP1,F)	4N35(SHORT-TP1,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
4N35(SHORT-TP5,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Integration of products	
PS55(S)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2745E	Chip revision	
TLP120(HO-GB,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(GB,E)	Integration of products	
TLP126(ASAD-TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPL,E)	Integration of products	
TLP126(ASAHID,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(E)	Integration of products	
TLP126(F)	TLP126(F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(E)	Integration of products	
TLP126(FANUC-TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPL,E)	Integration of products	
TLP126(FA-TPLS,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPL,E)	Integration of products	
TLP126(MBS-TR,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPL,E)	Integration of products	
TLP126(TEE-TPLS,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPL,E)	Integration of products	
TLP126(TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPL,E)	Integration of products	
TLP126(TPR,F)	TLP126TPRF	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP182(TPR,E)	Integration of products	
TLP127(F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP187(E)	Integration of products	
TLP127(TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP187(TPL,E)	Integration of products	
TLP127(TPR,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP187(TPR,E)	Integration of products	
TLP155(PAV-TR,E,U)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TLP255E(TPL,E)	Integration of products	
TLP150Q(DMT7-TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPL,E)	Integration of products	
TLP150Q(DMT7-TPR,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPR,E)	Integration of products	
TLP150Q(DT-TR,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPL,E)	Integration of products	
TLP160Q(F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(E)	Integration of products	
TLP160Q(IFT5,U,F)	TLP160Q(IFT5,U,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(E)	Integration of products	
TLP160Q(IFT7,U,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(E)	Integration of products	
TLP160Q(MBS-TR,U,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPR,E)	Integration of products	
TLP160Q(OMT7,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7,E)	Integration of products	
TLP160Q(OMT7-TPR,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPR,E)	Integration of products	
TLP160Q(SIEMTPLS,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPL,E)	Integration of products	
TLP160Q(SIEMTPRS,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPR,E)	Integration of products	
TLP160Q(TS-TR,U,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPL,E)	Integration of products	
TLP160Q(TS-TPR,U,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPR,E)	Integration of products	
TLP160Q(T7-TR,U,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPL,E)	Integration of products	
TLP160Q(T7-TPR,U,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPR,E)	Integration of products	
TLP160Q(TEE-TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPL,E)	Integration of products	
TLP160Q(TRL,U,F)	TLP160G(TRL,U,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPL,E)	Integration of products	
TLP160Q(TRL,U,F)	TLP160Q(TRL,U,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPR,E)	Integration of products	
TLP160Q(U,F)	TLP160Q(U,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(E)	Integration of products	
TLP160Q(OMT7-TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPL,E)	Integration of products	
TLP160Q(IFT7,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7,E)	Integration of products	
TLP160Q(OMT5TRUC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPR,E)	Integration of products	
TLP160Q(T7TL,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPL,E)	Integration of products	
TLP160Q(T7TR,U,C,F)	TLP160Q(T7TR,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(T7-TPR,E)	Integration of products	
TLP160Q(TRL,U,C,F)	TLP160Q(TRL,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPL,E)	Integration of products	
TLP160Q(TRL,U,C,F)	TLP160Q(TRL,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(TPR,E)	Integration of products	
TLP160Q(U,C,F)	TLP160Q(U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(E)	Integration of products	
TLP160Q(V4DMT7TR,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(V4T7TR,E)	Integration of products	
TLP160Q(V4DMTRUC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(V4,E)	Integration of products	
TLP160Q(V4T7,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(V4T7,E)	Integration of products	
TLP160Q(V4T7LUC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(V4T7L,E)	Integration of products	
TLP160Q(V4T7TRUC,F)	TLP160Q(V4T7TRUC,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP255(V4T7TR,E,T)	Integration of products	
TLP161G(IFT5,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(E)	Integration of products	
TLP161G(IFT7,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7,E)	Integration of products	
TLP161G(T5TL,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPL,E)	Integration of products	
TLP161G(T7TL,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7-TPL,E)	Integration of products	
TLP161G(T7TR,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7-TPR,E)	Integration of products	
TLP161G(TRL,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPL,E)	Integration of products	
TLP161G(TRL,U,C,F)	TLP161G(TRL,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPR,E)	Integration of products	
TLP161G(U,C,F)	TLP161G(U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(E)	Integration of products	
TLP161G(OMT7TR,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7-TPR,E)	Integration of products	
TLP161G(IFT5,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(E)	Integration of products	
TLP161G(IFT7,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7,E)	Integration of products	
TLP161G(OMT30LUC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(E)	Integration of products	
TLP161G(T5TL,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPL,E)	Integration of products	
TLP161G(T5TR,U,C,F)	TLP161G(T5TR,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPR,E)	Integration of products	
TLP161G(T7TL,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7-TPL,E)	Integration of products	
TLP161G(T7TR,U,C,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(T7-TPR,E)	Integration of products	
TLP161G(TRL,U,C,F)	TLP161G(TRL,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPL,E)	Integration of products	
TLP161G(TRL,U,C,F)	TLP161G(TRL,U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(TPR,E)	Integration of products	
TLP161G(U,C,F)	TLP161G(U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(E)	Integration of products	
TLP161G(V4DMT7TRCF)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(V4T7TR,E)	Integration of products	
TLP161G(V4DMTR,C,F)	TLP161G(V4DMTR,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(V4-TPR,E)	Integration of products	
TLP161G(V4T5TRUC,F)	TLP161G(V4T5TRUC,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(V4-TPR,E)	Integration of products	
TLP161G(V4-U,C,F)	TLP161G(V4-U,C,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	2	TLP266(V4,E)	Integration of products	
TLP2095(F)	TLP2095(F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2395E	Integration of products	
TLP2095(TPL,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2395(TPL,E)	Integration of products	
TLP2098(F)	TLP2098(F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2398E	Integration of products	
TLP2098(TPL,F)	TLP2098(TPL,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2398(TPL,E)	Integration of products	
TLP2116(F)	TLP2116(F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TLP2766A(E)	Chip revision	
TLP2116(TP,F)	TLP2116(TP,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TLP2766A(TP,E)	Chip revision	
TLP2118(F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TLP2168(F)	Chip revision	
TLP2118(TP,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TLP2168(TP,F)	Chip revision	
TLP2200(F)	TLP2200F	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2745E	Integration of products	
TLP2200(LF,L,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2745E	Integration of products	
TLP2200(LF2,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2745E	Integration of products	
TLP2200(TP1,F)	TLP2200(TP1,F)	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2745(TP1,E)	Integration of products	

P/N	Generic P/N	EOL Announcement Date	LTSB Date	LTS Date	Substitution level *	Replacement P/N	Reason	Comment
TLP750(D4MAT-LF2,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-LF4,E)	Integration of products	
TLP750(D4-O,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-E)	Integration of products	
TLP750(D4-O-LF1,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-E)	Integration of products	
TLP750(D4-O-LF2,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-LF4,E)	Integration of products	
TLP750(D4-O-TP1,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-TP,E)	Integration of products	
TLP750(D4-O-TP4,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-TP4,E)	Integration of products	
TLP750(D4-SANVD,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-E)	Integration of products	
TLP750(D4SHR-DT4,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-TP4,E)	Integration of products	
TLP750(D4-TP1,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-TP,E)	Integration of products	
TLP750(D4-TP4,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-TP4,E)	Integration of products	
TLP750(D4-YASK,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-E)	Integration of products	
TLP750(ELKO,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(E)	Integration of products	
TLP750(F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(E)	Integration of products	
TLP750(NEMIC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(E)	Integration of products	
TLP750(NEMIC-LF2,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(LF4,E)	Integration of products	
TLP750F(D4-TP4,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2719(D4-TP4,E)	Integration of products	
TLP7820(A,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(A-LF4,E)	Others	
TLP7820(A,TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(A-TP4,E)	Others	
TLP7820(B,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(B-LF4,E)	Others	
TLP7820(B,TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(B-TP4,E)	Others	
TLP7820(D4-E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(D4-LF4,E)	Others	
TLP7820(D4-A,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(D4ALF4,E)	Others	
TLP7820(D4-TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(D4TP4,E)	Others	
TLP7820(D4-B,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(D4BLF4,E)	Others	
TLP7820(D4B,TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(D4BTP4,E)	Others	
TLP7820(D4-TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(D4-TP4,E)	Others	
TLP7820(TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7820(TP4,E)	Others	
TLP7830(D4-E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7830(D4-LF4,E)	Others	
TLP7830(D4KWTTL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7830(D4KWTJ4E)	Others	
TLP7830(D4-TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7830(D4-TP4,E)	Others	
TLP7830(TL,E)	Not Available	Apr 2019	N/A	Sep 30, 2019	1	TLP7830(TP4,E)	Others	
TLPN137(D4-S)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2768A(D4-E)	Chip revision	
TLPN137(D4TP1,S)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2768A(D4-TP,E)	Chip revision	
TLPN137(S)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2768A(E)	Chip revision	
TLPN137(TP1,S)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	3	TLP2768A(TP,E)	Chip revision	
TOCP100K(SUMID)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	4	TOCP100K	Integration of products	
TOCP155K(SUMID)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	4	TOCP155K	Integration of products	
TOCP200K(SUMID)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	4	TOCP200K	Integration of products	
TOCP200KQ	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Lack of demand	
TOCP255K(SUMID)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	4	TOCP255K	Integration of products	
TODX2700(FANUJ,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2710(FANUC,F)	Integration of products	
TODX2700(FANUJ3,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2710(FANUC,F)	Integration of products	
TODX2700(FANUC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2710(FANUC,F)	Integration of products	
TODX2900(ES)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2910(FANUC,F)	Integration of products	
TODX2900(FANUC,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2910(FANUC,F)	Integration of products	
TODX2900(FANUC3,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2910(FANUC,F)	Integration of products	
TODX2900(FANUC3,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	1	TODX2910(FANUC,F)	Integration of products	
TORX1850(F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Discontinuation of Assembly Machine	
TORX1850(MEDEN,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Discontinuation of Assembly Machine	
TORX1850(SUMID,F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Discontinuation of Assembly Machine	
TOTU1354(F)	Not Available	Apr 2019	Jun 29, 2020	Sep 30, 2020	0	No recommendation	Lack of demand	